psu_courses

Course Number	Course Name	Description
ACCTG 151	Introductory Financial Accounting I 3 Credits	Basic concepts, principles, and practices for the recording, summarizing, and interpreting of accounting data.
ACCTG 152	Introductory Financial Accounting II 3 Credits	Accounting for partnerships, corporations, cash flows, certain liabilities and assets, and the analysis of financial statements.
ACCTG 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
ACCTG 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ACCTG 201	Introduction to Financial Accounting 3 Credits	This course is an introduction to the basic concepts of financial accounting including the collection, recording, summarization, and interpretation of accounting data. Emphasis in the course is placed on using financial accour
ACCTG 202	Introduction to Managerial Accounting 3 Credits	This course is a continuation of ACCTG 201 (Introduction to Financial Accounting) with an in-depth analysis and explanation of the statement of cash flows and how understanding cash flows is important for all users (interna
ACCTG 211	Financial and Managerial Accounting for Decision Making 4 Credits	Introduction to the role of accounting numbers in the process of managing a business and in investor decision making. ACCTG 211 Financial and Managerial Accounting for Decision Making (4)The objective of this course is
ACCTG 211H	Financial and Managerial Accounting for Decision Making 4 Credits	The objective of this course is to introduce students to the discipline of accounting through an introduction to two of accounting's sub-disciplines, financial and managerial accounting. The more specific purpose is to provide
ACCTG 285	Introduction to Cyber Fraud 3 Credits	This introductory-level course, ACCTG 285 - Introduction to Cyber Fraud, introduces students to the various types of cybercrime that an organization or individual may face along with guidance on what to do once they are u
ACCTG 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ACCTG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ACCTG 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ACCTG 305	Financial Statements and Management Decisions 4 Credits	Impact of management's financing, investing, and operating decisions on GAAP- based financial statements. This course is a one-semester condensed version of the traditional two-semester intermediate accounting sequen
ACCTG 310	Federal Taxation I 3 Credits	Study of income determination concepts for individuals and corporations, impact of taxation on decisions, elementary research techniques, and ethical standards. ACCTG 310 Principles of Taxation (3) This course is directed
ACCTG 312	Accounting Technology Lab 3 Credits	Hands-on course to teach accounting software, applications of spreadsheets and databases in accounting, and surveying of underlying database theory. ACCTG 312 Accounting Technology Lab (3) This is a hands-on cours
ACCTG 340	Cost Accounting 3 Credits	Accounting for manufacturing concerns; actual and standard cost systems, and managerial uses of cost data.
ACCTG 371	Intermediate Accounting I 4 Credits	Financial accounting methods, theory and concepts; analysis of problems in applying concepts to financial statements and asset accounts.
ACCTG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ACCTG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ACCTG 403	Auditing 3 Credits	Financial compliance, internal, and operational audits; standards and procedures; sampling; EDP auditing; professional issues; application of concepts through written responses. ACCTG 403 Auditing (3)Financial statement,
ACCTG 403W	Auditing 3 Credits	Financial, compliance, internal, and operational audits; standards and procedures; sampling; EDP auditing; professional issues; application of concepts through written responses. ACCTG 403W Auditing (3) Financial statem
ACCTG 404	Managerial Accounting: Economic Perspective 3 Credits	Accounting techniques as planning, control, and motivating devices in business and other organizations; accounting data for decision making and performance evaluation. ACCTG 404 Managerial Accounting (3) This course
ACCTG 405	Principles of Taxation I 3 Credits	Elements of tax policy and tax-planning concepts for personal and business decision making; with emphasis on taxation of individuals. ACCTG 405 Principles of Taxation (3) Introduction to Taxation, is the first course that un
ACCTG 406	Principles of Taxation II 3 Credits	Impact of federal tax structure on business decisions, research methodology, tax planning; ethical considerations of tax practice.
ACCTG 410	Federal Taxation II 3 Credits	An examination of the rules and forms used to compute the federal tax liability of corporations and partners.
ACCTG 411	Accounting Practicum: VITA 3 Credits	Introduces students to practical aspects of tax preparation through the IRS' VITA program and completion of a tax research project.
ACCTG 417	Corporate and Managerial Communication 2-3 Credits	Developing student's expertise in interpreting and communicating accounting and financial information to business professionals. ACCTG 417 Corporate and Managerial Communication (2-3) This course provides an opport
ACCTG 422	Accounting Systems 3 Credits	Understanding flow and documentation of accounting information and internal controls in the context of accounting cycles. ACCTG 422 Accounting Systems (3) This course primarily investigates accounting transactions cycl
ACCTG 423	Accounting Data Analytics 3 Credits	This course focuses on helping students develop data analytic skills using accounting data. Data has proliferated in business and managers and accountants need to understand the implications for decision-making and tap
ACCTG 426	Financial Statement Analysis 3 Credits	The exploration of conventional and advanced methods of analyzing financial statements, including the assessment of earnings quality. ACCTG 426 Financial Statement Analysis (3) The objective of this course is to explore c
ACCTG 431	Advanced Auditing 3 Credits	Examination of legal liability, EDP, statistical sampling, SEC reporting, internal control, and financial reporting in specialized industries.
ACCTG 432	Accounting Information Systems 3 Credits	Accounting data are utilized as information in making decisions and as a control mechanism. The focus of this course, however, will be upon the actual production of accounting data. The purpose of the course is to learn ho
ACCTG 440	Advanced Management Accounting 3 Credits	Management accounting topics such as decision models, quantitative techniques, variance analysis, and their use in accounting. ACCTG 440 Advanced Management Accounting (3) An in-depth examination of accounting te
ACCTG 450	Advanced Accounting 3 Credits	Accounting theory and practice for business combinations, branches, international operations, partnerships, consolidated financial statements, corporate liquidations, nonprofit organizations, estates, and trusts.
ACCTG 461	International Accounting 3 Credits	Study of international accounting issues with emphasis on need, use, and interpretation of financial accounting required in global business environment.
ACCTG 462	Governmental and Not-for-Profit Accounting 3 Credits	Provides an understanding of governmental and not-for-profit accounting theory, procedures, and financial statements.
ACCTG 471	Intermediate Financial Accounting I 3 Credits	Theory and practice issues in income concepts and value measurement; GAAP; revenues, costs, assets, liabilities, and equities. ACCTG 471 Intermediate Accounting I (3) This course provides students with an understanding
ACCTG 472	Intermediate Financial Accounting II 3 Credits	Off-balance-sheet financing; special issues in cost capitalization, liabilities, and equities; matching; funds flow statements; statement analysis; inflation accounting.
ACCTG 473	Advanced Financial Accounting 3 Credits	Reporting for multi-corporate enterprises, business combinations, quasi- reorganizations, and selected contemporary reporting problems. ACCTG 473 Advanced Financial Accounting (3) This course explores four major topic
ACCTG 481	Financial Statement Analysis: Accounting Based Evaluation and Decision Making 3 Credits	An accounting based evaluation and decision making approach to analyzing financial statements by studying business and firm valuation. ACCTG 481 Financial Statement Analysis (3) The proposed course in financial statem
ACCTG 483	Forensic Accounting 3 Credits	Study of investigative accounting, consulting and litigation support activities undertaken in forensic accounting engagements. ACCTG 483 Forensic Accounting (3) ACCTG 483 is the exploration of the broad discipline knowr
ACCTG 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ACCTG 494H	Research Project 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small-group basis. ACCTG 494H Research Project (1-6) ACCTG 494H, Senior Honors Thesis in Accounting - Investigation of an original problem
ACCTG 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ACCTG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ACCTG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ACCTG 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. .
ACCTG 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ACS 97G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
ACS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ACS 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ADTED 100	Adult Learners in the University 3 Credits	ADTED 100 is an opportunity for adult learners to develop effective learning and writing strategies. This course is designed for the adult learner who is entering the university for the first time, or who is returning after an abser
ADTED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject which may be offered infrequently.

ADTED 300	Social Movements and Education: Global Perspectives 3 Credits	Social Movements are some of the most important contemporary actors influencing both societies and individuals. Social movements are also educational, transforming participants¿ worldviews and developing innovative pe
ADTED 456	Introduction to Family Literacy 3 Credits	Introduces family literacy concepts, models, and components supporting families; adult, child, and parent education, interactive literacy activities, and case management. ADTED 456 Introduction to Family Literacy (3) This 3-
ADTED 457	Adult Literacy 3 Credits	Surveys adult basic and literacy education research, theory, programming, and instruction; highlights learners' roles as parents, workers, and community members. ADTED 457 Adult Literacy (3) This 3-credit course explores
ADTED 458	Early Literacy Development 3 Credits	Focuses on young children's language and literacy development, including parental and staff support, grounded in scientifically based reading research. ADTED 458 Early Literacy Development (3) This is a three-credit, post-l
ADTED 459	Interactive Literacy and Parental Involvement: Supporting Academic Success 3 Credits	Explores parental involvement in education and parent-child literacy activities that support children's language and literacy development, especially among diverse families. ADTED 459 Interactive Literacy: Parents and Child
ADTED 460	Introduction to Lifelong Learning and Adult Education 3 Credits/Maximum of 3	History, methods, agencies, program areas, and problems of lifelong learning and adult education in the United States.
ADTED 470	Introduction to Distance Education 3 Credits	An introduction to the history, philosophy, organizations, learning theories, and instructional procedures used in American and foreign distance education.
ADTED 480	Teaching Math and Numeracy to Adults 3 Credits	ADTED 480 examines issues of learning math as an adult and explores effective strategies for teaching math and numeracy to adults. ADTED 480 Teaching Math and Numeracy to Adults (3) Many international assessments s
ADTED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject which may be offered infrequently.
AERSP 1	Aerospace Explorer--First-Year Seminar 1 Credits	First-Year Seminar explores aerodynamics, structural mechanics, flight mechanics, rotorcraft systems, high performance computers, air/space propulsion, and space systems. AERSP 1 Aerospace Explorer--First-Year Semina
AERSP 55	Space Science and Technology 3 Credits	The science and technology of space exploration and exploitation; physical principles; research and development; history, space policy, and social implications.
AERSP 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AERSP 197N	Special Topics - InterDomain 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GenEd course.
AERSP 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AERSP 204	Flight Vehicle Design and Fabrication I 2 Credits/Maximum of 8	Integrated project management, design, fabrication, testing, and flight evaluation of an advanced composite flight vehicle.
AERSP 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AERSP 301	Aerospace Structures 3 Credits	Aerospace structural design concepts, flight safety. Stiffness, strength, stability of thin-walled structures under combined loads. Energy methods, finite element analysis. AERSP 301 Aerospace Structures (3) AERSP 301 cove
AERSP 304	Dynamics and Control of Aerospace Systems 3 Credits	Vibrations of single, multiple, and infinite degree-of-freedom systems; operational methods applied to aerospace vehicles; design of controllers.
AERSP 305W	Aerospace Technology Laboratory 3 Credits	Experiments in measurement systems, aerodynamics, aerospace structures, dynamics and control, and propulsion, technical report writing and presentations. AERSP 305 Aerospace Technology Laboratory (3) AERSP 305 is
AERSP 306	Aeronautics 3 Credits	Lift and drag characteristics of aircraft; propulsion systems; airplane performance; introduction to stability and control.
AERSP 308	Mechanics of Fluids 3 Credits	Kinetics and dynamics of fluids; perfect fluid theory using complex variables; introduction to viscous flow theory; fundamentals of compressible flow.
AERSP 309	Astronautics 3 Credits	Introduction to space and space flight; laws of particle mechanics; orbits and trajectories; space vehicles and propulsion. AERSP 309 Astronautics (3) This course, required for aerospace engineering majors, focuses primarily
AERSP 311	Aerodynamics I 3 Credits	Fluid statics and kinematics; fluid dynamics of inviscid and viscous flows; Navier-Stokes equations; introduction to boundary layers. AERSP 311 Aerodynamics I (3) This is a first course in incompressible inviscid and viscous
AERSP 312	Aerodynamics II 3 Credits	Fluid mechanics of viscous and compressible flows, laminar boundary layers, turbulent flows, isentropic flows, shock waves, supersonic life and drag. AERSP 312 Aerodynamics II (3) Exact solutions of the Navier-Stokes equ
AERSP 313	Aerospace Analysis 3 Credits	Mathematical methods applied to aerospace engineering: Fourier series, ordinary and partial differential equations, complex variables, numerical methods, data analysis. AERSP 313 Aerospace Analysis (3) This course is des
AERSP 397	Special Topics 1-18 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AERSP 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AERSP 401A	Spacecraft Design--Preliminary 3 Credits	Conceptual and preliminary design of a spacecraft, its constituent subsystems, and related systems, to satisfy a given set of specifications. AERSP 401A Spacecraft Design - Preliminary (3) AERSP 401A is the first of a two-s
AERSP 401B	Spacecraft Design--Detailed 2 Credits	Detailed design of the constituent subsystems and related support systems for a spacecraft. AERSP 401B Spacecraft Design -- Detailed (2) AERSP 401B is the second of a two-semester sequence of senior capstone design
AERSP 402A	Aircraft Design--Preliminary 3 Credits	Conceptual and preliminary design of an aircraft, its constituent subsystems, and related systems, to satisfy a given set of specifications. AERSP 402A Aircraft Design -- Preliminary (3) AERSP 402A is the first of a two-semes
AERSP 402B	Aircraft Design--Detailed 2 Credits	Detailed design of the constituent subsystems and related support systems for an aircraft. AERSP 402B Aircraft Design - Detailed (2) AERSP 402B is the second of a two-semester sequence of senior capstone design cours
AERSP 403A	Autonomous Aerospace Vehicle Design - Preliminary 3 Credits	The Autonomous Aerospace Vehicle Capstone concentrates on automation and autonomy concepts for vehicles in flight, including complex avionics for manned aircraft; unmanned aircraft systems and launch vehicles; and c
AERSP 403B	Autonomous Aerospace Vehicle Design - Detailed 2 Credits	The Autonomy Aerospace Vehicle Capstone concentrates on automation and autonomy concepts for vehicles, including complex avionics for manned aircraft; unmanned aircraft systems and launch vehicles; and complex au
AERSP 404	Flight Vehicle Design and Fabrication II 3 Credits/Maximum of 12	Project management, design, fabrication, aerodynamic and structural testing, and flight evaluation of an advanced composite flight vehicle.
AERSP 405	Experimental Methods and Projects 3 Credits	Experimental methods involving a variety of aerospace engineering topics; teams of students focus on adanced measurement techniques and project engineering. AERSP 405 Experimental Methods and Projects (3) This is a
AERSP 407	Aerodynamics of V/STOL Aircraft 3 Credits	Rotary wing aircraft; VTOL and STOL performance; propeller-wing combinations; jet flap; high lift devices.
AERSP 410	Aerospace Propulsion 3 Credits	Analysis and performance characteristics of reciprocating engine, turbo-jet, turbo-prop, turbo-fan, ram-jets, and chemical rockets. Aerothermodynamics of inlets, combustors, and turbomachinery.
AERSP 412	Turbulent Flow 3 Credits	Homogeneous turbulence; spectral transfer of energy, viscous dissipation; turbulent shear flow: mixing-length theory, eddy viscosity, scaling laws, energy budget.
AERSP 413	Stability and Control of Aircraft 3 Credits	Static and dynamic stability and control of aircraft; open and closed loop systems.
AERSP 415	Spacecraft/Environment Interactions 3 Credits	This course examines the effects on spacecraft design and operation, both short and long term, by the four aspects of the space environment: the neutral environment, the plasma environment, the radiation environment, anc
AERSP 420	Principles of Flight Testing 3 Credits	In-flight and analytical studies of airplane performance, stability, and control; reduction of data; instrumentation; flight test techniques.
AERSP 423	Introduction to Numerical Methods in Fluid Dynamics 3 Credits	This course provides an introduction to the important and growing field of Computational Fluid Dynamics (CFD). The student will become familiar with a short history and relevance of CFD, the basic differential models of fluic
AERSP 424	Advanced Computer Programming 3 Credits	Engineering and scientific programming topics: object oriented programming, parallel programming, and various modern languages (e.g. C++, Java, and Ada). AERSP 424 Advanced Computer Programming (3) This course p
AERSP 425	Theory of Flight 3 Credits	Advanced wing and airfoil theory, conformal mapping, slender body theory.
AERSP 430	Space Propulsion and Power Systems 3 Credits	Analysis and performance of chemical and nuclear rockets, electric propulsion systems. Introduction to solar, chemical, thermoelectric, and nuclear power sources.
AERSP 440	Introduction to Software Engineering for Aerospace Engineers 3 Credits	Software engineering for safety- and mission-critical systems, including requirements, management, processes, designs, programming, validation/ verification, and other aspects of software development. AERSP 440 Introdu
AERSP 450	Orbit and Attitude Control of Spacecraft 3 Credits	Principles of mechanics and vector analysis applied to basic concepts of satellite motion and control, rocket ballistics, and gyroscopic instruments.
AERSP 458	Advanced Orbital Mechanics 3 Credits	This course is an introduction to the mathematics and practices in orbital mechanics as applied to spacecraft mission design and operation. The major topics are: the n-body problem, the two-body problem, Keplerian orbits,
AERSP 460	Aerospace Control Systems 3 Credits	Design and analysis of feedback control systems for aerospace applications; stability, root locus, time- and frequency-domain, state-space methods. AERSP 460 Aerospace Control Systems (3) This course is an introduction
AERSP 462	Aerospace Autonomy 3 Credits	Aerospace autonomy is the blending of aerospace engineering and computer science - an interdisciplinary topic that will boost your skills in both domains. From advanced decision-making algorithms to sensing and state es
AERSP 470	Advanced Aerospace Structures 3 Credits	Design and analysis of aerospace structures. Plates and sandwich panels; composite materials; structural dynamics; aeroelasticity; damage tolerance. AERSP 470 Advanced Aerospace Structures (3) AERSP 470 covers imp
AERSP 473	Composites Processing 3 Credits	An introduction to the principles of mechanics governing manufacturing, computer-aided design, and testing of composite materials and structures.
AERSP 490	Introduction to Plasmas 3 Credits	This course provides the education on models that are used for description of plasma phenomena as applicable to plasma confinement, plasma assisted materials processing, astrophysical plasmas and plasmas in the near

AERSP 492	Space Astronomy and Introduction to Space Science 3 Credits	The physical nature of the objects in the solar system; the earth's atmosphere, ionosphere, radiation belts, magnetosphere, and orbital mechanics.
AERSP 494	Aerospace Undergraduate Thesis 1-12 Credits/Maximum of 12	Individual problem investigations reported in written thesis and seminar lectures. Cooperative research with faculty guidance on topics of current interest.
AERSP 494H	Aerospace Undergraduate Thesis 1-3 Credits/Maximum of 6	Individual problem investigations reported in written thesis and seminar lectures. Cooperative research with faculty guidance on topics of current interest.
AERSP 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AERSP 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AERSP 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFAM 3	Scholarship and Community 1 Credits	Introduction to college life for new students in a designated residential community to help them optimize their Penn State experience.
AFAM 4	Educational Equity Scholarship and Community II 1 Credits	The purpose of the second-semester seminar is to support scholars' success through demonstration of engaged scholarship through course curriculum and co-curricular program opportunities at University Park. This course
AFAM 83	First-Year Seminar in African American Studies 3 Credits	AFAM 83 has two primary purposes. First, it is designed to introduce students to college life and help them identify the resources and opportunities that will be most helpful to their future personal and professional path. Secc
AFAM 100N	Black Freedom Struggles 3 Credits	This course focuses on Black freedom struggles in the United States and selected examples from other countries in Latin America and the Caribbean. Themes addressed may include enslaved Africans' resistance to capture
AFAM 101N	African American Women 3 Credits	This course offers an introduction to the sociological, historical, and political experiences of African American women, their roles and contributions to society. Through an interdisciplinary approach, we will pay particular atten
AFAM 102	Women of the African Diaspora 3 Credits	Women of the African Diaspora is an introduction to studying the lives of African Diaspora women and the systems of power that shape them across cultures and geographies. The course centers on the politics of race and g
AFAM 103	Racism and Sexism 3 Credits	This survey course examines racism and sexism as cultural, political and economic processes that shape contemporary social life in the United States. It provides an historical overview of the roots of modern racism and sexi
AFAM 105N	Afro-Latin America: Race and Revolution 3 Credits	Too often the history of race in the Americas is overly defined by concepts of racial identity and race relations in the United States. When examined quantitatively, fewer than five percent of the approximately 10 million slaves
AFAM 110N	Introduction to African American Studies 3 Credits	This course is an introduction to African American Studies as both a political and intellectual project. We will look at the discipline's history, its most prominent thinkers and institutional locations, as well as the influence of Afr
AFAM 111N	Introduction to Anti-Black racism in the United States: The African American Experier 3 Credits	This interdisciplinary course for undergraduate students on anti-racism will examine the historical, sociological, representational, and psychological effects of racism on the experiences of African Americans. In 2020, three sig

AFAM 114N	Race, Gender and Sport 3 Credits	In 1969, sociologist Harry Edwards declared that a surge of protest among African American athletes marked "the newest phase of the black liberation movement in America." Nearly five decades later, athletes such as Richa
AFAM 116	Muslims in America 3 Credits	This course is a study of Muslims in North America, primarily the United States. It examines the multiple racial, cultural, and national groups that comprise this diverse community, starting with the historical record of the Musl
AFAM 126N	The Popular Arts in America: The History of Hip-Hop 3 Credits	Hip-hop is an important and historically significant genre in popular music that initially began in the South Bronx in the early 1970s and has grown to become one of the most influential, controversial, and important genres to
AFAM 132	Afro-Hispanic Civilization 3 Credits	A general introduction to human and cultural elements of African origin in Spanish- and Portuguese-speaking countries of Latin America. SPAN 132 / AFR 132 / AFAM 132 Afro-Hispanic Civilization (3) (IL) (BA) This course me
AFAM 136	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid or
AFAM 136Y	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid or
AFAM 139	African American Literature 3 Credits	This course offers an introduction to African American literature from the early writings of slavery and freedom to the works of present-day African American authors. We will explore the major themes, literary traditions and na
AFAM 141N	African American Read-In Engaged Learning Experience 1-3 Credits/Maximum of 6	This course will allow students to study African American literature, culture, history, and arts in connection with an annual public event, the African American Read-In (AARI). The AARI, promoting literacy and appreciation of A
AFAM 145	African Diaspora Religions and Spiritualities 3 Credits	This course is an introduction to religions and spiritual traditions of the African Americas including the United States, the Caribbean and Latin America, emphasizing present institutions and practices, their relationship to Afric
AFAM 146	The Life and Thought of Martin Luther King, Jr. 3 Credits	A survey of the civil rights leader including his religious beliefs, intellectual development, and philosophy for social change.
AFAM 147	The Life and Thought of Malcolm X 3 Credits	The life of Malcolm X/El Hajj Malik El Shabazz (1925-1965) and his social, political, economic, and moral thought. AFAM 147 / RLST 147 The Life and Thought of Malcolm X (3) (GH;US)(BA) This course meets the Bachelor of

AFAM 152	African American History 3 Credits	Chronological and topical survey of the history of African Americans from the colonial period to the early twenty-first century. This course covers major themes in African American history including the societies and cultures c
AFAM 164	The History of Brazil 3 Credits	This course will study the history of Brazil, the only Portuguese-speaking nation in Latin America, from the colonial to the present period. We will examine Brazil's transformation from Portuguese colony to the seat of a ninete
AFAM 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFAM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFAM 207N	Jazz and the African American Experience 3 Credits	The history and evolution of jazz is a significant cultural manifestation of the African American experience. The music and its artists provide a lens through which to examine questions surrounding the African American experi
AFAM 207W	Methods in African American Studies 3 Credits	Methods in African American Studies offers an introduction to the interdisciplinary methods employed in African American Studies. This writing intensive, required course for the major in African American Studies exposes stu
AFAM 208	Workshop: Theatre in Diverse Cultures 3 Credits	A performance-oriented class which explores the historic and contemporary theatrical works of various culturally diverse peoples. THEA 208 / AFAM 208 Theatre Workshop in Diverse Cultures (3) (GA;US;IL) (BA) This course r
AFAM 210	Freedom's First Generation: African American Life and Work, from the Civil War to Wo 3 Credits	HIST/AFAM 210 explores the context and events that shaped African American life during the post-abolition period from the U.S. Civil War until WW II. The course begins with a comparative examination of the decline of Afric
AFAM 211	Slavery and Freedom in the Black Atlantic 3 Credits	This course examines the history of African and Afro-descended people throughout the Atlantic world from the 15th through the 21st centuries. Historical topics include African societies before and after the advent of Europea
AFAM 212	African Americans in the New Jim Crow Era, 1968-present 3 Credits	An examination of Black political, economic, social, and cultural life in America from the era of colonization to 1905. AFAM 212 African Americans in the New Jim Crow Era, 1968-present (3) (US) This course covers the Black
AFAM 213Y	African American Women's History 3 Credits	This course examines the social, political, and economic history of African American women in the United States from slavery to the present. Using secondary and primary sources along with film and discussion, we will explo
AFAM 226N	Critical Approaches to Hip-Hop 3 Credits	This course will examine the politics of hip-hop art and culture. To do so, we will place hip-hop in broad historical context and trace its aesthetic and cultural roots from Africa to Jamaica to 1970s New York City and then forw
AFAM 235	From Folk Shouts and Songs to Hip Hop Poetry 3 Credits	The origins, forms, and function of the oral folk tradition of African Americans. ENGL 235 / AFAM 235 From Folk Shouts and Songs to Hip Hop Poetry (3) (US)(BA) This course meets the Bachelor of Arts degree requirements.
AFAM 250	Introduction to the Caribbean 3 Credits	A survey course exploring the emergence and historical evolution of the modern Caribbean. This course will explore the evolution of the Caribbean region from the eve of the arrival of Columbus to the 21st century. It will expl
AFAM 280	Historical Ethnography of Freedom 3 Credits	Studies the Underground Railroad movement to guide slaves to freedom, and public heritage surrounding this institution. Students use ethnographic approaches. AFAM 280 Historical Ethnography of Freedom (3) (GH;US) Th
AFAM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFAM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFAM 302	Diversity and Health 3 Credits	Diversity and Health is an introduction to the interdisciplinary study of the impact of diversity on health in America. The course is designed to provide an understanding of the complex interaction between concepts of diversit
AFAM 303	Race and Gender in the Americas: Latin American and Caribbean Cultures 3 Credits	Utilizing a theoretical framework of intersectionality, this course examines historical and cultural constructions of race and gender in Latin America and the Caribbean. AFAM 303 / ANTH 303 / WMNST 303 Race and Gender i

AFAM 364N	Black & White Sexuality 3 Credits	This course explains how narrow, "black and white," ways of thinking limit our understanding of the diverse expressions of human sexuality. The course title's double meaning also references the various ways that sexuality is
AFAM 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships.
AFAM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFAM 401	Afro-American Studies Seminar 3 Credits	A seminar examining theoretical and methodological issues in Afro-American Studies.
AFAM 409	Racial and Ethnic Inequality in America 3 Credits	Examines how and why issues related to social, economic, and political inequality among racial groups influence various aspects of US society. Explores the impact of racial inequality and discrimination on individual and coll
AFAM 410	Spirit, Space, Survival: Contemporary Black Women 3 Credits	How recent Black women have used spirit and space to survive.
AFAM 412	African American Theatre 3 Credits	Exploration of the development of African American theatre from its roots in Africa through the diaspora, to the present time. THEA 412 / AFAM 412 African American Theatre (3) (US;IL) (BA) This course meets the Bachelor of
AFAM 416	Race, Gender and Science 3 Credits	The class will focus on race and gender as products of science, and how societal values shape scientific activity.
AFAM 422	Contemporary African American Communication 3 Credits	A focused study on the continuities between African and African American culture and communication. CAS 422 / AFAM 422 Contemporary African American Communication (3) (US)(BA) This course meets the Bachelor of A
AFAM 431	Black Liberation and American Foreign Policy 3 Credits	This course deals with American foreign policy and Black liberation in Africa since 1945. AFAM 431 / HIST 431 Black Liberation and American Foreign Policy (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requi
AFAM 432	Between Nation and Empire: The Caribbean in the 20th Century 3 Credits	An exploration of the political evolution of the Caribbean Region over the course of the 20th Century. HIST 432 / AFAM 432 Between Nation and Empire: The Caribbean in the 20th Century (3) (IL)(BA) This course meets the Ba
AFAM 435N	Black Ecologies 3 Credits	African and African Diasporic peoples have been central to the creation and transformation of global ecologies and landscapes. As the birthplace of humankind, the African continent features the longest archaeological recor
AFAM 445Y	Politics of Affirmative Action 3 Credits	Examines history, politics, and economics of the use of special programs to advance racial interests in the U.S. PLSC 445Y / AFAM 445Y / LER 445Y Politics of Affirmative Action (3) (US)(BA) This course meets the Bachelor o
AFAM 460	African American Philosophy 3 Credits	This course will explore central questions and themes guiding the evolution of African American philosophy in the 19th and 20th centuries. Our course will study three different movements from the era. We begin with slavery
AFAM 463	African American Autobiography 3 Credits	The African American literary quest for identity and its adaptation to Euro-American culture and autobiographies. ENGL 463 African American Autobiography (3) (US)(BA) This course meets the Bachelor of Arts degree require
AFAM 465	The Post-World War II Civil Rights Movement 3 Credits	The civil rights struggle and its impact upon American politics. AFAM 465 / HIST 465 The Post-World War II Civil Rights Movement (3) (US) This course focuses on the post-World War II Civil Rights Movement. It begins with a
AFAM 466	African American Novel I 3 Credits	This course examines the origins of the African American novel and follows the genre's evolution into the early twentieth century, outlining the relationships among the texts that form the body of African American narrative as
AFAM 467	African American Novel II 3 Credits	This course examines the African American novel, its forms, and its traditions starting during the Harlem Renaissance. It follows the genre's evolution into the twenty-first century, outlining the relationships among the texts th
AFAM 468	African American Poetry 3 Credits	Meta duEwa Jones argues, "We cannot afford to continue to treat black poetry and poetics as loose change among the more highly valued paper currency of fiction and nonfiction prose. . . . The myriad aesthetic forms and c
AFAM 469	Slavery and the Literary Imagination 3 Credits	The impact of slavery on the petitions, poetry, slave narratives, autobiographies, and novels of African Americans. ENGL 469 / AFAM 469 Slavery and the Literary Imagination (3) (US)(BA) This course meets the Bachelor of Ar
AFAM 492	Identities, Power and Perceptual Pedagogies in Teaching and Learning 3 Credits	Students will perform inquires into the intersections of identities, power, and pedagogical formations in relation to urban teaching/learning contexts. AFAM 492 / CI 492 / EDTHP 492 Identities, Power and Perceptual Pedagog
AFAM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AFAM 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AFAM 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships.
AFAM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
AFAM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFAM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFR 105	African Biodiversity and Conservation 3 Credits	AFR 105 African Biodiversity and Conservation introduces the topic of Biodiversity in Africa, with a focus on how natural features, flora and fauna, and human livelihood systems interact. Additionally, the course will examine f
AFR 110N	Introduction to Contemporary Africa 3 Credits	Consideration of influences and forces shaping modern African society; analysis of current local and global problems and issues facing Africa are the central focus of the course. "Introduction to Contemporary Africa" offers s
AFR 132	Afro-Hispanic Civilization 3 Credits	A general introduction to human and cultural elements of African origin in Spanish- and Portuguese-speaking countries of Latin America. SPAN 132 / AFR 132 / AFAM 132 Afro-Hispanic Civilization (3) (IL) (BA) This course me
AFR 150	Africa in Cinema 3 Credits	The study of the image of Africa as seen in fiction and non-fictional feature length films, ethnographic and documentary films.
AFR 191	Early African History 3 Credits	The course is an introduction to the history of Africa south of the Sahara from the origins of humankind to roughly 1750 with a focus on common themes in the cultural and historical development of African societies. Themes

AFR 192	Modern African History 3 Credits	This course offers an overview of the history of Africa from 1750 to the present. The course introduces students to the diversity of Africa's geography, demography, and history and investigates the experience of modern histo
AFR 192H	Modern African History 3 Credits	This Honors course offers an overview of the history of Africa from 1750 to the present. The course introduces students to the diversity of Africa's geography, demography, and history and investigates the experience of mode
AFR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFR 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFR 202N	Women, Gender, and Feminisms in Africa 3 Credits	This introductory course provides students with a broad interdisciplinary overview of scholarly research and theory related to women and gender studies in Africa, using both historical and contemporary examples from acros
AFR 205	Development and Sustainability in Africa 3 Credits	AFR 205 Development and Sustainability in Africa introduces the development and sustainability strategies and theories in Africa, with a focus on how. This course will trace the history of change across the continent and criti
AFR 209	Poverty in Africa 3 Credits	African countries are generally considered to be among the poorest countries on the planet. On average, their incomes are low as are their levels of education. Poor African countries also have a range of peculiar characteristi
AFR 230N	Language and Social Justice 3 Credits	This course examines the contribution of language to a variety of social justice agendas by exploring how language is used to form and support unjust social structures. The course has two main aims. First, drawing from soc
AFR 234	Environment, Climate Change and Resilience in Africa 3 Credits	This course provides an overview of the relationship between environment, climate change and livelihood resilience in Africa. The AFR 234: Environment, Climate Change and Resilience (3 credits) course uses an interdisciplir
AFR 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AFR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AFR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFR 305	Introduction to Global Health Issues 3 Credits	Course will develop awareness of contemporary issues in global health. BB H 305 Introduction to Global Health Issues (3) This course is an introduction to health and related issues in the global context. It is intended to be a
AFR 310	Language Rights, Policy, and Planning 3 Credits	This is a course on language rights, policy, and planning from individual, group, inter-ethnic, and national perspectives. Linguistic minorities are a consequence of colonization by European powers in different regions of the gl
AFR 335	African Art 3 Credits	Introduction to the visual arts of Africa, including contemporary African art and the influence of African art outside Africa. ARTH 335 / AFR 335 African Art (3)(GA;IL)(BA) This course meets the Bachelor of Arts degree requirem
AFR 382	Language and Culture in Africa 3 Credits	This course will provide an introduction to language in Africa from linguistic and cultural perspectives. Course topics include: the study of African language families and what they teach us about the history of the continent, th
AFR 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AFR 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AFR 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AFR 403	South Africa Today 3 Credits	A course examining the South African government's policy of apartheid: its history, why it exists, how it works, and the prospects for change.
AFR 405	African Studies Methodologies 3 Credits	Multidisciplinary research techniques for studying in and about Africa.
AFR 434	War and Development in Africa 3 Credits	This course will examine the relationship between war and development in sub-Saharan Africa in the post colonial era. PLSC 434 / AFR 434 War and Development in Africa (3) (IL) This course will examine the relationship betv
AFR 435N	Black Ecologies 3 Credits	African and African Diasporic peoples have been central to the creation and transformation of global ecologies and landscapes. As the birthplace of humankind, the African continent features the longest archaeological recor
AFR 440	Globalization and Its Implications 3 Credits	This course explores the socioeconomic implications of globalization.
AFR 443	Ethnic Conflict in Africa 3 Credits	This course explores the various causes and impacts of ethnic conflicts in the African context.

AFR 444	African Resources and Development 3 Credits	Ecological and cultural factors in the geography of Africa; natural resources and development. GEOG 444 / AFR 444 African Resources and Development (3) (BA) This course meets the Bachelor of Arts degree requirements.
AFR 446	Topics in African Art 3 Credits/Maximum of 9	Topics vary from "Arts of Eastern and Southern Africa" to "Art of West Africa."
AFR 447	Topics in the Art of the African Diaspora 3 Credits/Maximum of 6	Selected topics in arts of the African Diaspora (South America, Caribbean, USA) including masquerades, textiles, architecture and other art forms.
AFR 449	Sport in African History 3 Credits	Recent events in sporting history have precipitated changes in perception for many in Africa relative to the historic legacies of racism and colonial rule. These events lead to pivotal questions -What are the broader social and
AFR 454	Government and Politics of Africa 3 Credits	Contemporary African politics, institutions, and ideologies; patterns of change, social forces, and nation building in selected African states. PLSC 454 / AFR 454 Government and Politics of Africa (3) (IL)(BA) This course meet
AFR 464	Extractive Industries in Africa 3 Credits	Socioeconomic and environmental impacts of extractive industries in Africa.
AFR 479	History of Imperialism and Nationalism in Africa 3 Credits	A selective overview of the history of iumperialism and nationalism in Africa. HIST/AFR 479 History of Imperialism and Nationalism in Africa. This course meets the Bachelor of Arts degree requirements. History/African Studi
AFR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AFR 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AFR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AFR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AFR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AGBM 101	Economic Principles of Agribusiness Decision Making 3 Credits	This course introduces students to microeconomic principles in the context of food and agriculture. More specifically, the course examines market supply and market demand in various food and agricultural products, then e
AGBM 102	Economics of the Food System 3 Credits	Introduction to topics designed to develop an understanding of how the food production, processing, and marketing system works and evolves.
AGBM 106	Agribusiness Problem Solving 3 Credits	Development of quantitative problem-solving skills applied to specific examples of agribusiness management problems, using EXCEL spreadsheets. AGBM 106 Agribusiness Problem Solving (3) The goal of this course is to c
AGBM 170	Investigating the U.S. Food System: How food moves from field to table 3 Credits	Our food system is a product of complex interaction of three systems: the natural ecosystem, the managed agricultural system, and the socio-economic system. Farming, food processing, food distribution, and consumption
AGBM 170N	Investigating the U.S. Food System: How food moves from field to table 3 Credits	The American food system is a product of complex interaction of three systems: the natural ecosystem, the managed agricultural system, and the socio-economic system. Farming, food processing, food distribution, and co
AGBM 199	Foreign Studies - Agribusiness Management 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction
AGBM 200	Introduction to Agricultural Business Management 3 Credits	Application of management principles and processes to agricultural business firms in their planning and operating in domestic and international markets. AGBM 200 Introduction to Agricultural Business Management (3) AGB
AGBM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AGBM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AGBM 297G	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AGBM 299	Foreign Studies - Agribusiness Management 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AGBM 302	Food Product Marketing 3 Credits	Analysis of economic and psychological determinants of the demand for food; marketing decisions in an increasingly consumer-driven food system.
AGBM 308W	Strategic Decision Making in Agribusiness 3 Credits	This course is designed to analyze strategic decision making among agribusiness firms and other economic agents in a market environment characterized by imperfect information and market power. The course draws upon
AGBM 320	Markets and Prices: Analysis and Forecasting 3 Credits	Students learn how prices are determined and learn how to analyze and forecast how prices change as the underlying conditions change. This involves learning those tools that are used to analyze and understand how comm
AGBM 338	Agribusiness in the Global Economy 3 Credits	Managing agribusinesses in the global food industry, international food product marketing, key public institution and policies affecting food trade.
AGBM 399	Foreign Studies - Agribusiness Management 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AGBM 407	Farm Planning and Financial Management 3 Credits	Economic principles applied to the management of farms, with particular emphasis on the financial aspects of management.
AGBM 408	Financial Decision Making for Agribusiness 3 Credits	Develop financial management and business analysis skills, integrating previous course work and finance training; principles of financial management, planning, control.
AGBM 420	Agribusiness Markets & Prices 3 Credits	Understand and forecast price level and volatility for commodities, differentiated products, services. Why markets work and why they may not.
AGBM 430	U.S. Food and Agricultural Policy 3 Credits	This course introduces students to the broad array of food and agricultural policies in the United States. Food and agricultural policies encompass laws, regulations, decisions, and actions by governments, industry, and othe
AGBM 440	Food Product Innovation Management 3 Credits	A problem-based course designed to enhance decision-making skills in the context of industry's approach to developing new food products.
AGBM 445	AgTech Entrepreneurship 3 Credits/Maximum of 6	Recommended Preparations: Completion of AGBM 308 or Completion of MGMT 215 or ENGR 310 New firm creation and venture funding within food, agriculture and biorenewables (AgTech) is occurring at a record pace. Ve
AGBM 455	Retail Horticulture Business Management 3 Credits	The nature, operation, and management of retail garden centers, winery tasting rooms, and independent food retailers. Overview of retail marketing principles and practices as they pertaining to horticultural retail businesses.
AGBM 460	Managing the Food System 3 Credits	Firm management in the food system; coordination with suppliers and customers, including supply chain management, strategic thinking, risk management.
AGBM 470A	Comparing Agricultural and Food Systems in the US and France: Lecture 2.5 Credits	This course is designed to explore key similarities and differences in the food and agricultural systems of the United States and France. It introduces students to a number of overarching food and agricultural topics that perta
AGBM 470B	Comparing Agricultural and Food Systems in the United States and France: Travel 0.5 Credits	Explore key differences and similarities in the food and agricultural systems of the United Sates and France. INTAG 470B / AGBM 470B Comparing Agricultural and Food Systems in the US and France: Travel (0.5) This cours
AGBM 494	Undergraduate Research 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
AGBM 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of Agribusiness Management honors thesis.
AGBM 495A	Internship in Agribusiness and Rural Development 1-6 Credits/Maximum of 6	Supervised field experience in an agribusiness or rural development setting.
AGBM 495B	Internship in International Agribusiness 6 Credits/Maximum of 6	Supervised field experience related to student's major, minor, or option.
AGBM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AGBM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AGBM 499	Foreign Studies - Agribusiness Management 1-12 Credits/Maximum of 12	Study in selected countries of agricultural economic institutions and current agricultural economic problems.
ABSM 100	Growing Your Future--First-Year Seminar 1 Credits	This first-year seminar introduces students to the university in general and to the breadth of the Biological Engineering (BE) and Agricultural and Biorenewable Systems Management (ABSM) programs. Students participate in
ABSM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ABSM 297N	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.

ABSM 300	Introduction to Agricultural and Biorenewable Products 3 Credits	This course provides an overview of the production, nature, and use of bioproducts, which are defined as products created from biologically derived, renewable industrial feedstocks. These materials are renewable and can b
ABSM 301	Engineering Principles of Agricultural and Biorenewable Systems 3 Credits	This course provides an overview of engineering principles to students in the non-engineering Agricultural and Biorenewable Systems Management major, but who are likely to encounter challenges that require quantitative s
ABSM 309	Measurement & Monitoring of Hydrologic Systems 3 Credits	This course is an introduction to measurement and monitoring equipment/techniques commonly used in analyses and design of hydrologic systems and will provide students the opportunity to learn and apply basic measure
ABSM 310	Power Transmission in Agriculture 3 Credits	After successful completion of ABSM 310, students will apply the physical principles of mechanical power transmission system components such as shafts, belts, chains, gears, and clutches by selecting suitable mechanical
ABSM 320	Combustion Engines for Mobile Equipment 3 Credits	After successful completion of ABSM 320, students will explain and evaluate the theoretical and practical aspects of internal combustion engines. Students will evaluate and compare alternative engine thermodynamic cycles
ABSM 327	Soil and Water Resource Management 3 Credits	This course equips students with the ability to understand land measurements, mapping, soils, hydrology, channel flow, erosion control techniques with emphasis on RUSLE2, subsurface drainage techniques, and water impo
ABSM 350	Introduction to Life Cycle Assessment 3 Credits	Life cycle assessment (LCA) is a quantitative approach to assessing the environmental, economic, and/or social impacts associated with the entire supply chain of a product, process, or service. LCA is a systematic and holis
ABSM 391	Communication Skills for BE and ABSM Students 2 Credits	This course is one part of a two-semester experience in discipline-specific communication and leadership skills training. A key facet of this training is contextual approach. To meet the needs of BE and ABSM students, the c
ABSM 392	Leadership and Ethics for BE and ABSM Students 2 Credits	This course is the second half of a two-semester experience in leadership, ethics, and communication skills training, following ABSM/BE 391. Course modules focus on leadership and communication needs of industry withir
ABSM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ABSM 402	Foundations of Sustainable Business 3 Credits	This course will provide students with an understanding of how environmental and sustainability issues are impacting business strategies and ultimately profits. We will also examine the external stakeholders, such as environ
ABSM 411	Bioproducts Science and Technology 3 Credits	This course investigates fundamental aspects of biorenewable polymers (bioproducts) and ties their underlying chemical structure to macroscale properties. These bioproducts are created from biologically derived, renewable
ABSM 417	Processing and Manufacturing Systems for Bioproducts 3 Credits	Overview of systems and processes used in the manufacture of bioproducts. This course reviews major bioproducts and details how they are manufactured industrially. A fundamental understanding of petrochemical refining
ABSM 420	Principles of Off-Road Machines 3 Credits	ABSM 420 covers the technical aspects of off-road power machinery, such as tractors, self-propelled harvesters, and military, logging and construction equipment. Upon successful completion, students will understand the r
ABSM 422	Energy Analysis in Agricultural and Biorenewable Systems 3 Credits	This course focuses upon first understanding the various forms of energy in common use today and then analyzing the energy equivalents of various forms of energy. Forms of energy to be studied most extensively include e
ABSM 423	Deterioration and Protection of Bioproducts 3 Credits	Timber, wood, and bioproduct deterioration from fungi, insects, fire; treatment of bioproducts for in-service protection.
ABSM 424	Precision Agriculture Technology 3 Credits	Precision agriculture is a data-based approach to optimize crop production and reduce environmental footprint. This course provides an overview of major concepts in precision agriculture (such as GPS, GIS, remote sensing
ABSM 426	Safety and Health in Agriculture and Biorenewable Industries 3 Credits	BRS 426 explores management aspects of occupational safety and health specifically as it pertains to both the agricultural and biorenewable systems industry sectors. Employers are increasingly demanding students have tr
ABSM 428	Electric Power and Instrumentation 3 Credits	Nearly every facet of our modern society relies on electricity and electronics. Whether engaged in product development, manufacturing, production, testing, or management, graduates of technical programs benefit from a fu
ABSM 429	Agricultural and Biorenewable Systems Analysis and Management 3 Credits	ABSM 429 covers systems analysis and optimization techniques including an introduction to systems theory, qualitative and quantitative analysis, and management science for constrained decision-making. It includes conce
ABSM 430W	Agricultural and Biorenewable Systems Management Capstone 1 1 Credits	Students in Agricultural and Biorenewable Systems Management learn to apply technology, business, and science to sustainable agricultural and biologically-based product systems development and management. The caps
ABSM 431W	Agricultural and Biorenewable Systems Management Capstone 2 2 Credits	Students in Agricultural and Biorenewable Systems Management learn to apply technology, business, and science to sustainable agricultural and biologically-based product systems development and management. The caps
ABSM 490	Agricultural and Biorenewable Systems Management Colloquium 1-2 Credits/Maximum of 2	This course introduces students to various aspects of the agricultural and biorenewable systems industries with an emphasis on professional career information and insights. Outside speakers will provide perspectives on cur
ABSM 494	Undergraduate Research 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
ABSM 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of a BioRenewable Systems honors thesis.
ABSM 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ABSM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ABSM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ABSM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AEE 100	Agricultural Education Orientation 3 Credits	Examination of agricultural and extension education; exploration of aptitude and interest in teaching, including early clinical practicum. AEE 100 Agricultural Education Orientation (3) The purpose of the course is to allow stu
AEE 201	Interpersonal Skills for Tomorrow's Leaders 3 Credits	Study of concepts of self identity, values and interpersonal relations as related to professional and personal life. The purpose of the course is to aid students in becoming competent in conducting interpersonal relationships i
AEE 204N	Science Literacy and Policy in the 21st Century 3 Credits	The objective of this course is to explore the nexus of scientific discovery and societal understanding. Specifically, to review the consensus of expert scientists in regard to common controversial issues and outline how public
AEE 216	Practical Parliamentary Procedure 3 Credits	Practice in presiding over and participating in meetings conducted under rules of order.
AEE 295	Observation of Teaching in Agriculture and Environmental Science 1-3 Credits/Maximum of 3	Supervised observation of teacher and student activities in a selected high school; appraisal of related responsibilities of teachers of agriculture.
AEE 296	Independent Studies 1-12 Credits/Maximum of 12	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AEE 297	Special Topics 0.5-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AEE 299	Foreign Studies 1-12 Credits/Maximum of 24	Courses offered in foreign countries by individual or group instruction.
AEE 311	Developing Youth Leadership through Organization and Program Structure 3 Credits	An orientation on how adolescents develop and emerge as leaders in their families, schools, organizations, and communities. AEE 311 Developing Youth Leadership through Organization and Program Structure (3) An orienta
AEE 313	School-Based Program Planning and Instructional Development 2 Credits	Planning and developing courses of study, summer programs, advisory committees, and facilities for vocational agriculture.
AEE 330W	Communication in Agricultural and Natural Resource Careers 3 Credits	The course explores the conventions of writing and speaking found in agricultural professions through the use of case studies.
AEE 349	Shop Processes for Agricultural Educators 3 Credits	Instruction in agricultural mechanics processes for teacher preparation in high school settings. AEE 349 Shop Processes for Agricultural Educators (3) This course is designed for teacher candidates who want to learn more a
AEE 350	Teaching Methods for Agricultural and Environmental Laboratories 3 Credits	An introductory course that prepares students to instruct and manage students in laboratory settings.
AEE 360	Leadership Development for Small Groups 3 Credits	Students will learn about leadership dynamics in small groups and how to be more influential in work settings. AEE 360 AEE 360 Leadership Development for Small Groups (3)This course is designed to teach students the dy
AEE 395	Internship 1-13 Credits/Maximum of 13	Supervised off-campus, non-group instruction including individual field experiences, practicums or internships. Written and oral critique of activity required.
AEE 400	Global Agriculture Education 3 Credits	The purpose of this course is to develop the global competency of future change agents in agricultural education so that they, in turn, can guide future learners to gain knowledge, develop skills, and acquire dispositions for li
AEE 412	Methods of Teaching Agriculture and Environmental Science 4 Credits	Instructional strategies and media; directing individual and group learning activities; assessing student performance and quality of instruction in vocational agriculture. AEE 412 Methods of Teaching Agriculture and Environm
AEE 413	Program Planning and Instructional Development 3-4 Credits/Maximum of 4	A course in planning, developing, and organizing school-based curriculum, summer programs, advisory councils, and facilities for environmental/ agricultural education. AEE 413 AEE 413 Program Planning and Instructional
AEE 437	Equine Facilitated Therapy 3 Credits	Equine Facilitated Therapy uses equine-related activities to contribute positively to the well-being of people with disabilities. AEE 437 / ANSC 437 Equine Facilitated Therapy (3)The primary goal of this course is to acquaint th
AEE 440	Communication Methods and Media 3 Credits	Mass media techniques for reporting and promoting extension and related programs, including message preparation, presentation, and strategy development.
AEE 460	Foundations in Leadership Development 3 Credits	This course explores historical and contemporary leadership theories, models and perspectives within social, cross-cultural, and political contexts. AEE 460 Foundations of Leadership Development (3)This course is designed
AEE 465	Leadership Practices: Power, Influences, and Impact 3 Credits	Explores the leader role as it relates to issues of purpose, social responsibility, political influences, and legal constraints. AEE 465 Leadership Practices: Power, Influences, and Impact (3) In this course, students will explore le
AEE 494	Undergraduate Research 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
AEE 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of Agricultural Extension Education honors thesis.
AEE 495	Internship 1-15 Credits/Maximum of 15	No description

AEE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AEE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on topical or special interest subjects which may be offered infrequently.
AEE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AGCOM 462W	Advanced Agricultural Writing 3 Credits	Practice in journalistic writing strategies to report scientific and technical information in the agricultural/environmental sciences to general audiences. AGCOM 462W Advanced Agricultural Writing (3) Advanced Agricultural Wr
AGCOM 495	Internship 1-3 Credits/Maximum of 3	Supervised field experiences related to student's professional interest in agricultural communications; limited to minors in agricultural communications.
AGSC 100	AESE First Year Seminar 1 Credits	The purpose of this course is to provide a reflective experience as students begin their academic careers at the Pennsylvania State University. It will primarily be taught via guest lecturers and small group discussion. Both the
AGSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AGSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGSC 299	Foreign Studies 1-12 Credits/Maximum of 24	Courses offered in foreign countries by individual or group instruction.
AGSC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGSC 494	Undergraduate Research 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
AGSC 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of Agricultural Science honors thesis.
AGSC 495	Internship 1-10 Credits/Maximum of 10	Independent study and supervised field experience related to the student's professional interest. Intended for Agricultural Science majors.
AGSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AGSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGSC 499	Foreign Studies 1-12 Credits/Maximum of 24	Courses offered in foreign countries by individual or group instruction.
AG 100	Job Placement Skills and Strategies 1 Credits	Strategies and skills designed to identify career/life goals and implement career decisions.
AG 113	Exploring Careers in Agriculture 1 Credits	Examination of career opportunities in agriculture with an exploration of the relationship between student interest and career decisions.
AG 150	Be a Master Student! 2 Credits	Students explore agricultural issues and research methodologies through literature review, library searches, field studies, and critical thinking.
AG 160	Introduction into Ethics and Issues in Agriculture 3 Credits	This course covers ethics and the social contract to include substantive ethical theories focusing on rights-based ethical theories (libertarianism and egalitarian theories) and consequentialist theories (utilitarianism and axiolo
AG 180N	Contemporary Issues in Food, Ag, Natural Resources, and Human Sciences 3 Credits	This course addresses how past and present impacts of food, agriculture, and natural resources have played a role in human, community, and land development in Pennsylvania and the United States within the context of the
AG 197	Special Topics 1-3 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AG 294	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AG 422	Communicating Research in Agricultural Sciences 1 Credits	This course provides opportunities to develop effective communication skills within the context of scientific research. Students participating in independent studies with faculty mentors will use their independent research pro
AG 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AG 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AG 495	Internship 1-18 Credits/Maximum of 18	Independent study and supervised field experience related to the student's major. Written and oral critique of activity required.
AG 495A	**SPECIAL TOPICS** 1-3 Credits	No description
AG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGECO 121	Plant Stress: It's Not Easy Being Green 3 Credits	This course is an introduction to plant biology with a strong emphasis on plant "stress" biology - how plants deal with the many hazards that they face, including diseases, insects, the weather, and animals. The course covers
AGECO 122	Atmospheric Environment: Growing in the Wind 3 Credits	Atmospheric Environment: Growing in the Wind is for students who are interested in learning about the dynamic effects of weather on plants and animals. It is about how processes at the ground surface and in the air govern
AGECO 134N	Sustainable Agriculture Science and Policy 3 Credits	This inter-domain (GN/GS) general education course addresses the science, socio-economics, and politics of managing food and fiber production systems; and the sustainability implications of current practices and future op
AGECO 144	Principles and Practices of Organic Agriculture 3 Credits	An introduction to the science, principles and practices of organic agricultural systems for food production. This natural sciences general education (GN) 3 credit course will teach students about the science of agroecology, v
AGECO 154	Principles of Agronomic Field Operations 2 Credits	Introduction to the cultural methods and equipment used in agronomic crop production.
AGECO 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGECO 201	Introductory Agroecology 3 Credits	Introduction to the processes and considerations that lead to the development of integrated solutions to crop production problem solving.
AGECO 295	Agroecology Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AGECO 418	Nutrient Management in Agricultural Systems 3 Credits	AGECO 418 / ANSC 418 / SOILS 418 Nutrient Management in Agricultural Systems is a senior-level course that applies the fundamentals of animal, plant and soil sciences to the issues and solutions in the area where livesto
AGECO 429	Crop Scouting 2 Credits	This course will teach proper crop scouting techniques and provide reference material to aid in identification of crop pests and determination of pest economic threshold levels. AGECO 429 Crop Scouting (2) This course will
AGECO 438	Principles of Weed Management 4 Credits	The study of weeds and their management is a challenging and demanding task that requires diverse abilities. The term weed is an anthropocentric construct meaning it is a human colored definition. We will study the biolog

AGECO 457	Principles of Integrated Pest Management 3 Credits	Integrated study of pest complexes and their management, emphasizing ecological principles drawing on examples from a range of agricultural, forestry and urban systems. This course is designed for sixth, seventh, and eig
AGECO 495	Agroecology Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AGECO 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
AGECO 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AGECO 499	Foreign Studies 1-2 Credits/Maximum of 4	Courses offered in foreign countries by individual or group instruction.
AGRO 28	Principles of Crop Management 3 Credits	Biological and agronomic principles applied to production and management of major feed and forage crops of the northeastern United States. This includes an overview of agronomy in the world and the United States with e
AGRO 410W	Physiology of Agricultural Crops 4 Credits	Study of the relation of plants to their environment and the physiology of crop plant growth. AGRO 410 Physiology of Agricultural Crops (4) AGRO 410 is a course in plant physiology that presents fundamental aspects of plan
AGRO 423	Forage Crop Management 3 Credits	Application of agronomic, ecological, and physiological principles to the production and management of pasture and forage crops.
AGRO 425	Field Crop Management 3 Credits	Application of agronomic, ecological, and physiological principles to management systems for the efficient production of the major field crops.
AGRO 438	Principles of Weed Management 4 Credits	The study of weeds and their management is a challenging and demanding task that requires diverse abilities. The term weed is an anthropocentric construct meaning it is a human colored definition. We will study the biology
AGRO 460	Advances and Applications of Plant Biotechnology 3 Credits	This course provides a comprehensive overview and current status of plant biotech research. The course provides knowledge of plant systems that fall in the category of GMOs. BIOTC 460 / AGRO 460 Advances and Applica
AGRO 495	Internship 1-5 Credits/Maximum of 5	Supervised field experience related to the student's major.
AGRO 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AGRO 496A	**SPECIAL TOPICS** 3-4 Credits	No description
AGRO 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AIR 151	Heritage and Values of the United States Air Force I 2 Credits	"Heritage and Values of the United States Air Force," is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the A
AIR 152	Heritage and Values of the United States Air Force II 2 Credits	"Heritage and Values of the United States Air Force II," is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the
AIR 251	Team and Leadership Fundamentals I 2 Credits/Maximum of 2	This course is designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects th
AIR 252	The Evolution of USAF Air and Space Power II 2 Credits/Maximum of 2	Continued examination of air and space power from the Cold War era to the Persian Gulf War and beyond.
AIR 351	Leading People and Effective Communication I 3 Credits/Maximum of 3	This course will provide students with the opportunity to utilize their communication skills as they begin more of a leadership role within an organization. The goal is for students to have a more in-depth understanding of how
AIR 352	Leading People and Effective Communication II 3 Credits	This course will provide students the opportunity to utilize their communication skills as they begin more of a leadership role within an organization. The goal is for students to have a more in-depth understanding of how to ef
AIR 451	National Security, Leadership Responsibilities, and Commissioning Preparation I 3 Credits/Maximum of 3	This course will provide a student the comprehension of the basic elements of national security policy and process. The student will understand the air and space power operations as well as grasp selected roles of the milita
AIR 452	National Security, Leadership Responsibilities, and Commissioning Preparation I 3 Credits/Maximum of 3	This course will provide a student the comprehension of the basic elements of national security policy and process. The student will understand the air and space power operations as well as grasp selected roles of the milita
AMST 3	The American Nation: Historical Perspectives 3 Credits	HIST/AMST 3 allows for faculty and students to work in a small setting in order to explore the history of the United States through a detailed interdisciplinary examination of a particular theme, institution, or person in America
AMST 83	First-Year Seminar in American Studies 3 Credits	Critical approaches to the interdisciplinary study of American culture. AMST 83 First-Year Seminar in American Studies (3) (GH;FYS) (BA) This course meets the Bachelor of Arts degree requirements. This course will be an op
AMST 100	Introduction to American Studies 3 Credits	AMST 100 offers a broad-ranging introduction to American cultural history and the discipline of American Studies. The course examines what "America" means and what it means to be "American" within the context of speci
AMST 100Y	Introduction to American Studies 3 Credits	A study of selected attempts to identify and interpret movements and patterns in American culture. AMST100Y Introduction to American Studies (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. AMS
AMST 103	American Masculinities 3 Credits	Introduction to aspects of masculinities and manhood in America. This course examines aspects of masculinities and manhood in America from a variety of perspectives. It views American manhood through the lens of gend
AMST 104	Women and the American Experience 3 Credits	Selected aspects of the role of women in United States history and culture from colonial to modern times. AMST 104 / WMNST 104 Women and the American Experience (3) (GH;US)(BA) This course meets the Bachelor of Ar
AMST 105	American Popular Culture and Folklife 3 Credits	AMST 105 / ENGL 105 offers a survey of popular culture and folklife in America's past and present. The course synthesizes a broad scope of materials from areas such as literature, movies, television, sports, amusement parl
AMST 106N	The Mass Media and Society 3 Credits	Mass communications in the United States: organization, role, content, and effects of newspapers, magazines, television, radio, books, and films. The Mass Media and Society is an overview of the interaction between mass
AMST 127	Introduction to U.S. Latina/o History 3 Credits	This course provides an interdisciplinary introduction to the study of Latinas and Latinos in the United States. The course includes a historical overview of the major events in the U.S. Southwest, Mexico, the Caribbean, and C

AMST 134	American Comedy 3 Credits	ENGL 134 serves as a survey of and introduction to strands of American comedy and satire from its eighteenth- and nineteenth-century roots through its many directions in the twentieth century. Students will read works fron
AMST 135	Alternative Voices in American Literature 3 Credits	English 135 considers literature from diverse backgrounds (for example, Latinato, African-American, Asian-American, Native-American, Jewish, Muslim, working-class, lesbian, gay, or women's literature, or any other configur
AMST 140Y	Religion in American Life and Thought 3 Credits	The course aims to cast light on contemporary religious life in the United States by looking at the history of American religion. The course will provide students with a broad overview of American religious life from the colonial
AMST 150	America in the 1960s: An Introduction 3 Credits	This course offers an introduction to the history of the United States in the 1960s. The dual goals of this course are to instill a particular body of knowledge - in this case, America in the 1960s, and to provide students with toc
AMST 150N	Western Pennsylvania Art, Literature, and Culture 3 Credits	AMST 150N: Western Pennsylvania Art, Literature, and Culture (GA/GH) will survey western Pennsylvania's rich artistic, literary, and cultural heritage from pre-history to the present day. Beginning with the region's indigenous
AMST 151N	Technology and Society in American History 3 Credits	This course examines the development of technology in the United States from the colonial period to the present, and places into a historical context the reception and influence of these technological developments on the s
AMST 155	American Business History 3 Credits	This course examines major developments in the history of modern American business and industry from the colonial period to the present. History 155 introduces students to a number of the main themes, concepts, and ev
AMST 160N	Introduction to Asian American Studies 3 Credits	This course offers an introduction to the history, literature, culture, and social conditions of Asian Americans. It begins with Chinese immigration to the United States in the nineteenth century and proceeds to cover the histori
AMST 161	The Battle of Gettysburg in American Historical Memory 3 Credits	HIST/AMST 161 examines the history of the Battle of Gettysburg, as well as the political and social factors that have shaped perceptions of the Battle of Gettysburg as one of the Civil War's decisive battle and as a national s
AMST 161N	Chinese in America, Americans in China 3 Credits	This course examines the history of Americans in China, the experiences of Chinese in America, and 200 years of Sino-American Relations. Starting in the 1840s, dreams of economic opportunity inspired Chinese immigrants
AMST 170N	Introduction to American Folklore 3 Credits	This course introduces the verbal and nonverbal genres of folklore that have influenced literature, economics, politics and culture in North America. Approaching folklore as traditional patterns, practices, and performances, th
AMST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AMST 197N	Special Topics - InterDomain 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GenEd course.

AMST 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AMST 226N	Critical Approaches to Hip-Hop 3 Credits	This course will examine the politics of hip-hop art and culture. To do so, we will place hip-hop in broad historical context and trace its aesthetic and cultural roots from Africa to Jamaica to 1970s New York City and then forw
AMST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AMST 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AMST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AMST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AMST 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AMST 307N	American Art and Society 3 Credits	History of art in the English colonies and the United States from the seventeenth century to the present. AMST 307N / ARTH 307N American Art (3) (GA;US)(GH)(BA) This course meets the Bachelor of Arts degree requiremen
AMST 308N	American Architecture 3 Credits	History of the architecture of the United States, as well as its Native American and colonial antecedents. AMST / ARTH 308N American Architecture (3) (GA;GH;US)(BA) This course meets the Bachelor of Arts degree requirem
AMST 309N	American Material Culture 3 Credits	This course covers American material culture defined as the interconnection of tangible, human-made forms in contexts representing cultural ideas and practices. It investigates the links of genres such as architecture, art, cra
AMST 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AMST 401	Revolution and Early Republic, 1765-1815 3 Credits	American society and culture during the period of the Revolution and the Early Republic. AMST 401 Revolution and Early Republic 1765-1815 (3) American society and culture during the period of the Revolution and Early Re
AMST 402	Antebellum and Civil War Era, 1815-1876 3 Credits	Social and cultural conditions, sectional rivalry, political crises, warfare, and Reconstruction from 1815 to 1876.
AMST 404	Industrial America 3 Credits	An analysis of American politics, literature, society, and economics from the 1870s to World War II.
AMST 405	Cold War 3 Credits	Examination of social and cultural currents in American life from World War II to 1990. AMST 405 Cold War America (3) Examination of social and cultural currents in American life after World War II to 1990. The course satisfie
AMST 412	American Eras 3 Credits/Maximum of 99	Examination in depth of various and distinctive American time periods; subtitle expresses specific content. (May be repeated for credit.) AMST 412 American Eras (3) Examination in depth of various and distinctive American t
AMST 417	American Beliefs and Myths 3 Credits/Maximum of 99	A study of symbols, beliefs, and myths in the American experience; subtitles express specific content. (May be repeated for credit.)
AMST 422	Religion and American Culture 3 Credits/Maximum of 6	Selected topics, problems, or historical movements in American religion; relation between religion and American culture.
AMST 423	Folk Groups and Genres 3 Credits	We live surrounded by folklore. From the jokes and stories we tell, to the ways we cook and eat, work and dress, even how we interact using digital media, much of what we do in our lives involves tradition. This course will p
AMST 432	Ethnicity and the American Experience 3 Credits	Theoretical and conceptual framework of ethnic studies: examination of specific issues related to major American ethnic and racial groups.
AMST 435	Americans at Work 3 Credits	A study of occupational and organizational cultures in America. AMST 435 Americans at Work (3) A study of occupational and organizational cultures in America. The course examines historical and social changes in primary
AMST 441	History of Sport in American Society 3 Credits	AMST 441 / KINES 441 History of Sport in American Society study of the background, establishment, and growth of sport in America from colonial times to the present, and the role of American sports in American culture an
AMST 447	Recent American History 3 Credits/Maximum of 3	Contemporary economic, social, and political aspects of the United States and its role as a world power since 1945. AMST 447 / HIST 447 Recent American History (3)This course covers the history of the United States from
AMST 448	Ethnography of the United States 3 Credits	Ethnographic descriptions of various dimensions of life in the United States. ANTH 448 / AMST 448 Ethnography of the United States (3) Ethnographic descriptions of various dimensions of life in the United States. The cours
AMST 451	Topics in American Film 3 Credits/Maximum of 6	Critical and historical studies of American films. Analysis of directing, cinematography, editing, screenwriting, and acting.
AMST 470	The American Renaissance 3 Credits	Studies in the works and the interrelationships of writers such as Emerson, Hawthorne, Poe, Thoreau, Whitman, Melville, and Dickinson. The course will cover Transcendentalism and the authors who contributed to this move
AMST 472	Topics in American Literature 3 Credits/Maximum of 99	Focused study of a particular genre, theme, or problem in American literature. (May be repeated for credit.) ENGL 434 / AMST 472 Topics in American Literature (3) This course will allow faculty and students to focus a semes
AMST 475	Black American Writers 3 Credits/Maximum of 6	A particular genre or historical period in the development of Black American literature. ENGL 431 / AMST 475 Black American Writers (3) (US) A study of a particular genre or historical period in the development of Black Ame
AMST 476	American Women Writers 3 Credits	A study of selected American women writers. ENGL 492 / AMST 476 / WMNST 491 American Women Writers (3) A study of selected women writers, this course provides the opportunity to study writing by American women
AMST 479	American Expressive Forms 3 Credits/Maximum of 99	Examination in depth of various and distinctive American expressive forms; subtitle expresses specific content. (May be repeated for credit.) AMST 479 American Expressive Forms (3) Examination in depth of various and dist
AMST 480	Museum Studies 3 Credits	An introduction to the basic purposes, philosophies, and functions of a museum, with emphasis on the problems of museum administration. (May be repeated for credit.) AMST 480 Museum Studies (3) An introduction to the
AMST 481	Historic Preservation 3 Credits	A study of preservation practices and programs in America. AMST 481 Historic Preservation (3) A study of historic preservation practices and programs in America. This seminar will examine the historic preservation moveme
AMST 482	Public Heritage Practices 3 Credits/Maximum of 99	A study of public heritage practices and programs in America. (May be repeated for credit.) AMST 482 Public Heritage (3) A study of public heritage practices and programs, which encompasses interpretation and education
AMST 491W	American Studies Perspectives 3-6 Credits/Maximum of 6	This writing-intensive course covers perspectives and approaches of American Studies scholarship regarding themes, issues, and problems in American culture and their applications in society. It serves as a capstone course
AMST 493	The Folktale in American Literature 3 Credits	A survey of the literary uses of the folktale and legendary materials, with particular concentration on the literature of America.
AMST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AMST 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AMST 495	Internship 1-6 Credits/Maximum of 6	Supervised internship for undergraduate or graduate American Studies majors at a museum or another cultural, historical, or arts agency.
AMST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AMST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

AMST 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANSC 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 100	Introduction to Animal Industries 3 Credits	This course will introduce students to the breadth and scope of animal agriculture in North America with emphasis on food producing animals. Additionally, fiber producing animals, pets, pleasure animals, and alternative lives
ANSC 107	Introduction to Equine Science and the Equine Industry 3 Credits	This web based course provides students with basic knowledge about equine science and its application to the industry to prepare them to be more effective communicators with industry personnel. Inductive and deductive
ANSC 117	Equine Marketing 2 Credits	Principles of marketing and event planning including marketing systems, advertising, management systems, team building and other aspects of conducting a purebred livestock sale. Students learn through the planning and
ANSC 150S	Animal Science Freshman Seminar 2 Credits	ANSC 150S is for first year University Park students intending an Animal Science major. Students will engage in college success strategies including time management, advising resources, University practices, policies and p
ANSC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 201	Animal Science 4 Credits	Scope of animal and poultry science; genetic, physiological, nutritional, and health factors in food production. ANSC 201 Animal Science (4)This course examines the scope and diversity of disciplines comprising the animal
ANSC 202W	Contemporary Issues in Animal Agriculture 3 Credits/Maximum of 3	ANSC 202W, Contemporary Issues in Animal Agriculture, is a 3 credit 200 level course, emphasizing the appropriate citation of sources and writing about contemporary issues facing the animal sciences field. Thus, writing as
ANSC 207	Animal Products Technology 2 Credits	Composition, safety, palatability, preservation, and processing of foods from animals, impact of animal production and handling practices on product properties. FDSC 207 / ANSC 207 Animal Products Technology (2) This c
ANSC 208	Animal Products Technology Laboratory 1 Credits	Harvesting and processing of foods from animals; hands-on and demonstration exercises; industry procedures for processing meat, milk, and egg products. FDSC 208 / ANSC 208 Animal Products Technology Laboratory (1
ANSC 211	Introduction to Avian Biology 3 Credits	Introduces the biology of birds; lectures, laboratories on anatomy and function, incubation, breeding, disease control, management techniques, and student projects.
ANSC 213	Introduction to Animal Biotechnology 3 Credits	This course provides an early exposure to the emerging and diverse field of animal biotechnology. Basic principles underlying recombinant DNA technology, genetics, gene transfer technology, genomics and their technologic
ANSC 215	Pets in Society 3 Credits	ANSC 215 Pets in Society (3) (GS)Companion animals have far-reaching influence on many aspects of human society. How humans relate to pets varies from individual to individual and is influenced by many factors. The fiel
ANSC 217	Introduction to Horse Judging 2 Credits	Introductory analysis of halter and performance classes of stock-type horses, with emphasis on conformation, gaits, patterns, and oral reasons. ANSC 217 Introduction to Horse Judging (2) encompasses the introductory in
ANSC 225	Introduction to Dairy Judging 1 Credits	Training in the visual evaluation of dairy cattle and practice in defending decisions through oral reasons. ANSC 225 Introduction to Dairy Judging (1) Students will learn the basic concepts used in dairy cattle judging and eval
ANSC 290	Careers in Animal Agriculture 1 Credits	ANSC 290 is a required course for Animal Science majors and minors. Each week during class, students are exposed to varied potential career paths within the animal industries. Students will develop a resume and cover let
ANSC 291	Externship with Animal Science Business 1-2 Credits/Maximum of 4	Students will obtain a one-week on site work experience with an animal-related agribusiness. ANSC 291 Externship with Animal Science Business (1-2 per semester/maximum of 4) This course will provide an opportunity for
ANSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ANSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANSC 300	Anatomy and Physiology of Domestic Animals 3 Credits	An overview of the anatomy and physiology of domestic animals and how it relates to animal management practices. The course will begin with an introduction to key physiology concepts such as homeostasis and structure/
ANSC 301	Principles of Animal Nutrition 3 Credits	Nutrients and their metabolism; the nutritional requirements of livestock; the nutritional value of various feeds; principles of ration formulation.
ANSC 305	Companion Animal Nutrition 3 Credits	Principles of care and nutrition and contemporary importance of companion animals with emphasis on canine and feline species. ANSC 305 Companion Animal Nutrition and Management (3)Students of the animal sciences
ANSC 306	Swine Production and Management 3 Credits	Students enrolled in ANSC 306 Swine Production and Management will study business and production-related concepts associated with modern swine production. The course will combine biology, nutrition, reproduction, he
ANSC 308	Sheep and Goat Production and Management 3 Credits	ANSC 308 Sheep and Goat Production and Management (3) encompasses the requisite information for students to manage any of the small ruminant livestock species including meat and wool sheep, hair sheep, and meat g
ANSC 309	Beef Cattle Production and Management 4 Credits	Beef Production and Management will provide a comprehensive review of the business-related and production oriented concepts associated with modern beef production. This course will combine traditional disciplines of be
ANSC 310	Dairy Cattle Production and Management 3 Credits	Principles of dairy management including the dairy industry and control points associated with nutrition, genetics, lactation, reproduction, and housing.
ANSC 311	Poultry Production and Management 3 Credits	The application of fundamental concepts and preparation for careers in the economically integrated commercial poultry industry. ANSC 311 Poultry Production and Management (4) Poultry Production and Management will
ANSC 315	Small Animal Health and Disease 3 Credits	Introduction to the principles of small animal health, including the recogniti recognition, prevention and control of common small animal diseases. ANSC 315 Small Animal Health and Disease (3) Small animals play increasing
ANSC 317	Horse Handling and Training 3 Credits	Responses of horses to various stimuli during the training period. Laboratory exercises involve extensive practice with young horses.
ANSC 322	Animal Genetics and Selection 3 Credits	Fundamental principles of genetics as applied to breeding farm animals. ANSC 322 Animal Genetics and Selection (3) This course teaches fundamental concepts related to genetic variation and how genetic change occurs i
ANSC 322H	Animal Genetics and Selection - Honors 3 Credits	Fundamental principles of genetics as applied to breeding farm animals. ANSC 322H Animal Genetics and Selection - Honors (3) This course teaches fundamental concepts related to genetic variation and how genetic chan
ANSC 324	Value Determination of Meat Animals 3 Credits	Live animal and carcass evaluation of cattle, sheep, and swine to determine value of market animals and meat products.
ANSC 327	Horse Production and Management 4 Credits	ANSC 327, Horse Production and Management, is a 4 credit course for students pursuing careers that are directly or indirectly associated with the horse industry. This course is an in-depth examination of a broad range of to
ANSC 331	Physiology of Animal Reproduction 3 Credits	ANSC 331 is a study of reproductive anatomy, endocrinology, physiology, behaviors, and management in animals. Students will gain an understanding of the development, organization, and functions of the reproductive syst
ANSC 332N	Science and policy of global greenhouse gas emissions and management 3 Credits	This interdomain course introduces students to the science and policy of greenhouse gas emissions. The course focuses on emissions from natural sources, energy production and food production. Policy components will in
ANSC 346	Animal Enterprise Analysis 3 Credits	Evaluating livestock operations within and across enterprises has become a vital skill to being profitable today. The nexus of financial performance and production management is the catalyst to profitable and sustainable ope
ANSC 350	Dairy Problem Solving 2 Credits	Students will use dairy records to analyze herd performance in order to identify bottlenecks for higher productivity. ANSC 350 Dairy Problem Solving (2)This course will develop case based approaches to problem solving usi
ANSC 357	Equine Broodmare and Foal Care 3 Credits	ANSC 357, Equine Broodmare and Foal Care, is a 3 credit course for students pursuing careers that are directly or indirectly associated with the horse industry. This course is an in depth study of late gestation broodmares, f
ANSC 389	Supervised Experience in College Teaching 1-3 Credits/Maximum of 4	The Supervised College Teaching course provides selected undergraduates with formal, supervised teaching experience in an Animal Science course. Faculty recruit students who excel in a particular course to serve as unde
ANSC 395	Animal Science Internship 1-12 Credits/Maximum of 12	Supervised field experience and study related to the student's major professional interest. Written and oral critique of activity required.
ANSC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANSC 410	Advanced Dairy Herd Management 4 Credits	Application of dairy herd management principles using case studies and actual dairy farm situations.
ANSC 413	Transgenic Biology 3 Credits	The fundamental concepts, relevant technologies, and applications of genetically engineered animals, with an emphasis on livestock and poultry species, are discussed in the class. Topics will include the history and progres
ANSC 415	Companion Animal Behavior 3 Credits	Detailed study of companion animal behavior; including individual, developmental, and environmental bases of behavior with applied demonstration and discussion.
ANSC 418	Nutrient Management in Agricultural Systems 3 Credits	AGECO 418 / ANSC 418 / SOILS 418 Nutrient Management in Agricultural Systems is a senior-level course that applies the fundamentals of animal, plant and soil sciences to the issues and solutions in the area where livesto
ANSC 419W	Applied Animal Welfare 3 Credits	Assessment of management practices impacting animal welfare; devoted to livestock species, companion animals, captive exotic species, and animals in research.
ANSC 420	Animal Nutrition and Feed Technology 4 Credits	Feedstuff evaluation, quality control, handling, storage: life cycle feeding of beef cattle, dairy cattle, sheep, swine, horses, and poultry.
ANSC 421	Poultry Evaluation and Selection 3 Credits	Poultry Evaluation and Selection is a hands-on course that will provide the opportunity for students to apply the principles used and standards that directly relate to evaluate the evaluation and selection of Purebred and meat

ANSC 422W	Dairy Cattle Evaluation and Selection 3 Credits	The course will focus on understanding the role of records and available information in designing breeding programs. Students will gain an understanding of breeds, conformation and genetic evaluation methods throughout t
ANSC 423	Comparative Physiology of Domestic Animals 3 Credits	A comparative approach to understanding body function in domesticated avian and mammalian species.
ANSC 424	Livestock Breeding Evaluation and Selection 3 Credits	Evaluation and selection of beef cattle, sheep, swine, and horses; critical analysis of performance records and genetic evaluations.
ANSC 425	Principles of Avian Diseases 3 Credits	Principles of pathogenesis and control of diseases in poultry and other avian populations. Case material used where appropriate. ANSC 425 / VBSC 425 Principles of Avian Diseases (3) This course discusses the major dise
ANSC 426	Advanced Judging and Selection 2 Credits/Maximum of 4	ANSC 426 provides students with critical thinking and communication skills through evaluation and selection of animals. This course provides intensive training in evaluation and selection of dairy, poultry, horses or meat anim
ANSC 427	Milk Secretion 3 Credits	Development and physiology of the mammary gland and factors which affect the amount and composition of milk produced.
ANSC 429	Advanced Beef Cattle Production 3 Credits	Application of scientific and business principles to practical production and management issues using case studies or selected live settings. ANSC 429 Advanced Beef Cattle Production (3) This course was developed to trai
ANSC 431	Physiology of Animal Reproduction 4 Credits	This course is a detailed study of reproductive processes in animals. Students will gain a fundamental understanding of the development, organization and functions of the reproductive system with a focus on domestic anim
ANSC 432	Techniques in Cattle Reproduction 1 Credits	Demonstration and practice in cattle artifical insemination technique and semen handling. Instruction in reproductive systems anatomy, estrous cycle and estrus synchronization programs. ANSC 432 Techniques in Cattle Re
ANSC 437	Equine Facilitated Therapy 3 Credits	Equine Facilitated Therapy uses equine-related activities to contribute positively to the well-being of people with disabilities. AEE 437 / ANSC 437 Equine Facilitated Therapy (3)The primary goal of this course is to acquaint th
ANSC 447	Equine Exercise Physiology 3 Credits	ANSC 447, Equine Exercise Physiology, is a 3 credit junior/senior-level course for students interested in the basic and applied aspects of exercise physiology of the horse. The course begins with discussion on the history of e
ANSC 450	Dairy Farm Management Systems 3 Credits	Capstone course emphasizing integration of dairy farm management principles into whole farm systems.
ANSC 451	Dairy Systems Analysis 1-2 Credits/Maximum of 2	Students will evaluate all systems of a working dairy farm business. ANSC 451 Dairy Systems Analysis (1-2 per semester/maximum of 2) This course will provide an overview of all areas of dairy business management. This c
ANSC 456	Animal Microbiomes 3 Credits	This course will be focused on three main aspects of the application of 'Omics' techniques in research to answer real-world problems. Students will be introduced to the concepts of multiple 'Omics' techniques, study design
ANSC 457	Equine Reproduction and Breeding Farm Management 3 Credits	Equine Reproduction and Breeding Farm Management is intended to expand on the knowledge of equine reproduction and breeding farm management acquired in other classes. The students will get hands on experience in
ANSC 467W	Equine Nutrition and Feeding 3 Credits	Equine gastrointestinal anatomy and physiology; energy and nutrient requirements for body functions; applied interrelationships between nutrition, health, and performance. ANSC 467 Equine Nutrition and Feeding (3) is a 3
ANSC 480	Animal Growth and Development 3 Credits	Animal growth and development is the understanding of tissue interactions as they influence each other and whole animal complexity from conception to maturity. An understanding of growth and development in livestock sp
ANSC 488	Biology of germ cells and assisted reproductive technologies 3 Credits	Germ cells are highly specialized cells that give rise to the next generation. The life history of germ cells from formation of primordial germ cells in the early embryo to formation of mature gametes will be traced in several mar
ANSC 494	Undergraduate Research 1-6 Credits/Maximum of 6	Independent undergraduate research directed by an Animal Science faculty supervisor.
ANSC 494H	Honors Thesis Research 1-6 Credits/Maximum of 6	Independent study directed by faculty supervisor culminating in an Animal Science honors thesis.
ANSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ANSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANSC 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANTH 1	Understanding Humans 3 Credits	ANTH 1 tells the story of humankind, how we as a species developed, and how modern Homo sapiens have developed more cultural complexity over time, moving, in the last 12,000 years, from a worldwide small population
ANTH 2N	World Archaeology 3 Credits	ANTH 2N (World Archaeology) introduces students to the concepts and evidence used in understanding the development of cultural diversity on our planet. This course provides an interdisciplinary overview of the major deve
ANTH 8	Aztec, Inca, Maya 3 Credits	ANTH 8 is a comparative survey of the development of the pre-Columbian Latin American civilizations. It is a general survey of three of the great complex societies of the New World - the Aztec and the Maya of Mesoamerica
ANTH 9N	Rise of Civilization in the Old World 3 Credits	ANTH 9N introduces students to the anthropology of early complex societies in the Old World, with an emphasis on the civilizations of Mesopotamia, Egypt, the Indus Valley and China. Course information emphasizes the nat
ANTH 11	North American Archaeology 3 Credits	The story of the indigenous peoples of North America and its parallels with developments elsewhere in the world have captured the imaginations of many people over the years. But it takes more than imagination to explore t
ANTH 21	Introductory Biological Anthropology 3 Credits	ANTH 21 (Introductory Biological Anthropology) is designed to introduce students to the fundamental principles and findings of human evolutionary biology. This course provides an overview of current data and theory relatec

ANTH 22	Humans as Primates 3 Credits	Humans as Primates is intended to introduce the student to the biological bases of human anatomy and behavior by drawing comparisons to the behavior and biology of our closest living relatives, the non-human primates. T
ANTH 40	Biocultural Evolution 3 Credits	Examination of evolutionary models of the development of the human capacity for culture, and of culture as an adaptive mechanism.
ANTH 40Q	Biocultural Evolution 3 Credits	Are we "stuck" with prehistoric genes in a rapidly changing ecological and cultural environment? What does our evolutionary history really tell us about human nature, health, and well-being? To answer these questions, we m
ANTH 45N	Cultural Diversity: A Global Perspective 3 Credits	ANTH 45N (Cultural Diversity: A Global Perspective) is designed to introduce students to the concepts and evidence used in understanding the cultural diversity of our planet. "Culture" can be defined as a socially transmittec
ANTH 45Q	Cultural Diversity: A Global Perspective 3 Credits	ANTH 45Q (Cultural Diversity: A Global Perspective) is designed to introduce students to the concepts and evidence used in understanding the cultural diversity of our planet. "Culture" can be defined as a socially transmittec
ANTH 60N	Society and Cultures in Modern Israel 3 Credits	Israel is often portrayed in media and popular society in incomplete or distorted terms. In some cases, it is presented as a troubled, violent, dangerous place, as a place permeated by long-standing hatred between Jews and
ANTH 83S	First-Year Seminar in Anthropology 3 Credits	ANTH 83S First-Year Seminar in Anthropology meets the Bachelor of Arts degree requirements. This seminar introduces students to anthropology as a scientific discipline with ties to other social and natural sciences. Throug
ANTH 100N	Anthropology of Race and Racism 3 Credits	Is "race" real? This course examines the concepts of race and racism from the perspective of four-field anthropology. Relying on ethnographic, biological, linguistic, and archaeological data, the course will introduce students
ANTH 120	First Farmers 3 Credits	This class compares the archaeological record of the first farming societies around the world. Beginning ca. 11,000 years ago, people started experimenting with various wild plants and animals in their surroundings through s
ANTH 129N	Chocolate Worlds 3 Credits	This course will examine the "world" of chocolate throughout human history. First cultivated by the ancient peoples of the Americas and then manufactured by Europeans and Pennsylvanians alike, chocolate has played a pri
ANTH 140	Anthropology of Alcohol 3 Credits	This class provides a lively tour around the world and through the millennia, telling the compelling story of humanity's quest for alcohol. Beginning about 10,000 years ago, humans in China and the Middle East became more

ANTH 146	Indigenous North America 3 Credits	This course is a review of the indigenous cultures of North America, located north of Mexico. It will cover the cultures that developed just prior to, during, and immediately after contact with non-indigenous explorers and pion
ANTH 150N	Human Nature: The Science of Extreme Altruism and Violence 3 Credits	Why do humans so readily help strangers in some circumstances and not others? Why does our species have a tragic history of war, genocide, and violence? Just how flexible is our tendency for altruism and violence? Huma
ANTH 150Q	Human Nature: The Science of Extreme Altruism and Violence 3 Credits	Why do humans so readily help strangers in some circumstances and not others? Why does our species have a tragic history of war, genocide, and violence? Just how flexible is our tendency for altruism and violence? Huma
ANTH 152	Hunters and Gatherers 3 Credits	A comparative study of hunter/gatherer societies using both archaeological and ethnographic evidence.
ANTH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ANTH 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANTH 210N	Anthropology, Ancestry, and You 3 Credits	Anthropology, Ancestry, and You will integrate anthropology and genetics through the exploration of the students' own genealogies and genomic ancestries. Engaging students in the investigation of their own origins will pron
ANTH 216N	Sex and Evolution 3 Credits	This course introduces students to evolutionary theory and explores its relevance to the anthropological study of human sexuality and sex differences. In doing so, the course draws from in integrates findings from a wide arra
ANTH 219N	Spillover: The Anthropology of Emerging Infectious Diseases 3 Credits	We live in a world of increasing global awareness and public anxiety of emerging zoonotic diseases. Why do infections continue to spillover from wildlife to humans? What will the next outbreak be? Where will it emerge? Will
ANTH 220	Anthropology and Art/ifacts 3 Credits	This course examines anthropological approaches to the study of art works, their production, and function in diverse human societies, both past and present. ANTH 220 Anthropology and Art/ifacts (3) (IL)(BA) This course me
ANTH 221N	Ancient Maya: Sacred Blood & Conjured Serpent 3 Credits	The Ancient Maya: Sacred Blood and Conjured Serpent. ANTH 221N Ancient Maya Civilization (3) (GS;GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. Great civilizations emerged independently in sev
ANTH 222	Archaeology of Domesticated Animals 3 Credits	Biological, ecological and cultural history of animal domestication. ANTH 222 Archaeology of Domesticated Animals (3) (GS;IL)(BA) This course meets the Bachelor of Arts degree requirements. Animals were domesticated in
ANTH 240N	Livelihoods and Ecosystems: Anthropological Approaches to Human-Environment Int 3 Credits	This course provides an anthropological understanding of the relationship between human subsistence and environment. The impacts of environmental change on human societies, and the roles those societies play in ecolog
ANTH 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.

ANTH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ANTH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANTH 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANTH 303	Race and Gender in the Americas: Latin American and Caribbean Cultures 3 Credits	Utilizing a theoretical framework of intersectionality, this course examines historical and cultural constructions of race and gender in Latin America and the Caribbean. AFAM 303 / ANTH 303 / WMNST 303 Race and Gender i
ANTH 321W	Intellectual Background of Archaeology 3 Credits	Introduction to primary sources on the development of archaeology as a scientific discipline.
ANTH 380	Anthropology Museum Studies 3 Credits	Introduction to the history, significance, and operation of anthropology museums. ANTH 380 Museum Studies (3) This course introduces students to the operation of anthropology museums and to the growing field of museu
ANTH 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ANTH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ANTH 401	Human Evolution: The Material Evidence 3 Credits	Human origins as seen in the fossil record and comparative biology of humans and their primate relatives.
ANTH 403	Evolution of Human Walking 3 Credits	An in depth analysis of the biology, biomechanics, evolutionary history of human walking and running.
ANTH 405	Primatology 3 Credits	Nonhuman primate origins, evolution, comparative physical and behavioral characteristics, ecological context, phylogeny and taxonomy; and their importance in anthropology.
ANTH 408	Anthropological Demography 3 Credits	Analysis of demographic studies in traditional and very small populations. ANTH 408 Anthropological Demography (3)(BA) This course meets the Bachelor of Arts degree requirements. This course examines population-relate
ANTH 410	Osteology 4 Credits	Introduction to the systematic study of the human skeleton from an evolutionary developmental biological perspective. ANTH 410 Osteology (4) This course introduces students to the aspects of the human skeleton and den
ANTH 411	Skeletal Forensic Anthropology 3 Credits	An introduction to anthropological forensic science with an emphasis on what can be learned from human skeletons and archaeological recovery methods. ANTH 411 Skeletal Forensic Anthropology (3) This course is a surve
ANTH 412	Settlement Demography 3 Credits	Examination of the demography and ecology of human settlement systems in the preindustrial past. ANTH 412 Settlement Demography (3)This seminar will examine the population dynamics of human settlement systems in
ANTH 413	Molecular Forensic Anthropology 3 Credits	An introduction to the field of the application of DNA methods to estimating forensically useful phenotypes. ANTH 413 Molecular Forensic Anthropology (3) This course is a survey of forensic anthropology focusing on human
ANTH 414	Microbial Insights into Anthropology 3 Credits	The human body contains more microorganisms than it does its own cells, yet these complex communities of microorganisms are largely absent from Anthropology textbooks. This course investigates the interplay between n
ANTH 416	The Evolution of Human Mating 3 Credits	The Evolution of Human Mating is a science course designed to familiarize students with the primary literature on the evolution and development of human mating behavior and sex differences.
ANTH 418	Medical Anthropology 3 Credits	This course provides an introduction to the field of medical anthropology from an ecological, biocultural, and economic perspective. Drawing on readings and ethnographic sources, students will examine how anthropology a
ANTH 419	Anthropology and One Health 3 Credits	Is there a true distinction between human health, the health of animals, and the health of the environments we share? Or is there only "one health"? This course examines the interconnectedness between human, animal and
ANTH 420	Archaeology of the Near East 3 Credits	Culture of the Near East and India from Paleolithic times through the Bronze Age.
ANTH 422	Meso-American Archaeology and Ethnography 3 Credits	Survey of ethnohistorical and ethnographic patterns of Meso-American society; origin and development of ancient civilization in Mexico, Guatemala, and Honduras.
ANTH 423	The Evolution of American Indian Culture 3 Credits	Historic and archaeological sources used to trace American Indian lifestyles from the first immigrants to the period of Euro-American contact.
ANTH 424	Andean Ethnology and Archaeology 3 Credits	Cultures of the Andes from earliest settlements to Inka Empire; includes discussion of life in modern Andean communities. ANTH 424 Andean Ethnology and Archaeology (3)(BA) This course meets the Bachelor of Arts degre
ANTH 425	Zooarchaeology 3 Credits	Introduction to the systematic study of animal skeletal remains from archaeological sites.
ANTH 426W	Archaeological Laboratory Analysis 3 Credits	Scientific laboratory methods used in the analysis of ceramic and lithic artifacts. ANTH 426W Archaeological Laboratory Analysis (3) This course, Archaeological Laboratory Analysis, employs experiential learning to teach stu
ANTH 427W	Forensic Archaeology 3 Credits	Application of archaeological techniques to crime scene investigations, with practical experience in field and laboratory contexts.
ANTH 428	Archaeological Methods and Theory 3 Credits	Scientific methods as applied to archaeological data: evolution, ecology, diffusion, and cyclicism theory.
ANTH 430	Ancient Brews 3 Credits	Understanding how past humans altered their environments is at the core of this Ancient Brews course. Through the domestication of plants and animals to the continuous modification of technologies, our ancestors have su
ANTH 432	Environmental Archaeology 3 Credits	Introductory course in Environmental Archaeology, with empahsis on method and theory in the subfields archaeobotany, pedoarchaeology, and zooarchaeology. ANTH 432 Environmental Archaeology (3)This class is a survey
ANTH 433	Archaeological Ethics and Law 3 Credits	Introductory course that examines prominent ethical and legal issues in archaeology integral to modern applied research and practice. ANTH 433 Archaeological Ethics and Law (3)This course explores the ethical, legal, and p
ANTH 434N	Black Ecologies 3 Credits	African and African Diasporic peoples have been central to the creation and transformation of global ecologies and landscapes. As the birthplace of humankind, the African continent features the longest archaeological recor
ANTH 435	Ancient Economy 3 Credits	The course examines the comparative organization and development of ancient economies in both the Old and New Worlds. ANTH 435 Ancient Economy (3) (IL)(BA) This course meets the Bachelor of Arts degree requiremen
ANTH 439W	Studies in Classical and Ancient Mediterranean Archaeology 3-6 Credits/Maximum of 6	CAMS 440W Studies in Classical and Ancient Mediterranean Archaeology (3-6) (BA) This course meets the Bachelor of Arts degree requirements. CAMS 440W is a writing-across-the-curriculum upper-level archaeology cours
ANTH 444	The Evolution of War 3 Credits	Critical overview of the ethnography and theory of primitive warfare. ANTH 444 Primitive Warfare (3) Anthropology 444 is concerned with the phenomenon of lethal group violence in tribal societies so called "primitive war". T
ANTH 445W	Ethnographic Film 3 Credits	Comparisons of written and visual ethnography; critical assessment of ethnographic film; cross-cultural variation. ANTH 445W Ethnographic Film (3) Students will be presented with both written and filmed ethnographic mate
ANTH 446	Mating and Marriage 3 Credits	An examination of human mating mainly from the viewpoint of behavioral ecology, centering on the species-typical institution of marriage. ANTH 446 Mating and Marriage (3) This course is an examination of human mating ar
ANTH 448	Ethnography of the United States 3 Credits	Ethnographic descriptions of various dimensions of life in the United States. ANTH 448 / AMST 448 Ethnography of the United States (3) Ethnographic descriptions of various dimensions of life in the United States. The cours
ANTH 453	Anthropology of Religion 3 Credits	Traditional and modern religions and historical and contemporary religious movements from an anthropological perspective. ANTH 453 Anthropology of Religion (3)(BA) This course meets the Bachelor of Arts degree requiren
ANTH 457	Jewish Communities: Identity, Survival, and Transformation in Unexpected Places 3 Credits	Examines the global array of smaller Jewish communities that have flourished outside the main urban centers of Jewish settlement. JST 457 / ANTH 457 / SOC 457 Jewish Communities: Identity, Survival, and Transformation
ANTH 458	Ethnographic Field Methods 3 Credits	Course introduces students to ethnographic field methods, includes student projects and simple analyses that don't require statistical sophistication. ANTH 458 Ethnographic Field Methods (3)(BA) This course meets the Bac
ANTH 460	Human Genetics 3 Credits	This course will cover the nature and contents of the human genome and the basic principles of evolution. We will also explore the future implications of personal genomics and how this information is being used to reconstru
ANTH 460H	Honors Human Genetics 4 Credits	This course will cover the nature and contents of the human genome and the basic principles of evolution. We will also explore the future implications of personal genomics and how this information is being used to reconstru
ANTH 461	Molecular Anthropology 3 Credits	Provides framework to understand current issues in biology, genetics, and anthropology as they relate to the evolution of our species. ANTH 461 Molecular Anthropology (3) The aim of this course is to provide students with
ANTH 466	The Skull 3 Credits	Survey of the mammalian skull from many perspectives including evolution, development, anatomy, function, and variability of the skull. ANTH 466 The Skull (3) This course will provide a survey of what is known about the M
ANTH 475H	Anthropology of Food Honors 3 Credits	This course is an anthropological approach to understanding temporal and spatial variation in human food consumption and nutrition: why do we eat what we eat? To answer this question, we approach it from multiple persp
ANTH 476W	Anthropology of Gender 3 Credits	Cross-cultural construction of gender and sex roles; theories of gender construction; case studies and practical effects. ANTH 476 / WMNST 476 Anthropology of Gender (3)Students will learn the current theoretical approach
ANTH 479	Tradition, Modernity, and Cultural Change in South Asian Societies 3 Credits	India and its neighboring countries provide an interesting view of the ways cultural diversity functions in the world. The region contains one-sixth of humankind, and its people are differentiated not only by religion, language,
ANTH 492	Intermediate Field Methods 3-6 Credits/Maximum of 6	On-site experience in collecting archaeological, behavioral, or biological data.
ANTH 493	Field Techniques 3-6 Credits/Maximum of 6	Training in techniques involving analyses of archaeological, behavioral, or biological data.
ANTH 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ANTH 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ANTH 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ANTH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall ouside the scope of formal courses.
ANTH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ANTH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ABA 457	Understanding Communication: Verbal Behavior 3 Credits	This course focuses on the behavioral processes in the development of language and communication. Topics include the acquisition and development of listener, speaker, reader, and writer behaviors; the application of theor

ABA 494	Research Projects in Behavior Analysis 1-12 Credits/Maximum of 12	Supervised student activities on behavioral research projects identified on an individual or small-group basis.
ABA 495	Internship in Behavior Analysis 3-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including behavioral field experiences, practice, or internship. Requirements and assessment will include skills including but not limited to national certification requirements.
APLNG 83	First-Year Seminar in Applied Linguistics: Language as Social Practice 3 Credits	This course introduces the idea of understanding language use as social practice. This means studying how language serves to represent and to constrain speakers in various social and cultural contexts. The activity of usin
APLNG 200	Introduction to Language, Culture, and Social Interaction 3 Credits	This course is an introduction to the study of language as a communication system and to contemporary thought on the interrelationships among language, culture, and social interaction and their fundamental links to social
APLNG 210	Global English 3 Credits	Having developed since the fifth century in the British Isles, English has now become a global language used by millions of native and non-native speakers around the world. This course examines the historical roots of Englis
APLNG 220N	Multilingual Lives: Stories of Language and Culture Learning 3 Credits	This course will explore how research into language acquisition intersects with the lived experiences of multilingual speakers. Drawing upon both social sciences and the humanities, the course will give students the opportu
APLNG 230N	Language and Social Justice 3 Credits	This course examines the contribution of language to a variety of social justice agendas by exploring how language is used to form and support unjust social structures. The course has two main aims. First, drawing from soc
APLNG 250	Peer Tutoring for Multilingual Writers 3 Credits/Maximum of 3	This class provides theoretical and practical training to prepare Writing Center Peer Tutors with specific expertise in tutoring international/multilingual students. This course provides a theoretically-grounded introduction to the
APLNG 260	LANGUAGE AND TECHNOLOGY 3 Credits	Applied Linguistics is an interdisciplinary field that investigates and aims to study social issues through a linguistic lens. APLNG 260 - Language and Technology - is designed to introduce students to how technology helps s
APLNG 269	Global Engagement Seminar 1 Credits	Global Engagement Seminar is a one-credit course for Global Engagement Community (GEC) Living-Learning Community (LLC) residents, and if space permits, non-GEC residents who are interested in cross-cultural engage
APLNG 280N	Conducting International Comparative Research 3 Credits	APLNG 280N Conducting International Comparative Research. (3) (Gen Ed;IL; Integrative) (BA) This course meets the Bachelor of Arts degree requirements and may also serve as a methods course in the Global and Internati
APLNG 290N	Critical Approaches to Applied Linguistics 3 Credits	APLNG290N is a critical, exploratory introduction to the discipline of applied linguistics designed primarily for undergraduate students who plan to enroll in the major; as such, the course is a required course for all students w
APLNG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
APLNG 310	Language Rights, Policy, and Planning 3 Credits	This is a course on language rights, policy, and planning from individual, group, inter-ethnic, and national perspectives. Linguistic minorities are a consequence of colonization by European powers in different regions of the gl
APLNG 320N	Language, Ideology, and Propaganda 3 Credits	The course gives students hands-on tools for investigating ideology and propaganda through the analysis of a variety of historical and contemporary texts. With the help of different theoretical perspectives, students learn ho
APLNG 402	Language, Culture and Cognition in East Asian Context 3 Credits	This course is a linguistic introduction to the relationship between language, culture, and cognition with a focus on Chinese, Japanese, and Korean. In this course, we study the cognitive linguistic view that human cognition i
APLNG 410	Teaching American English Pronunciation 3 Credits	Study and application of principles of North American English phonetics and theories of teaching pronunciation. APLNG 410 Teaching American English Pronunciation (3)(BA) This course meets the Bachelor of Arts degree re
APLNG 412	Teaching Second Language Writing 3 Credits	This course provides opportunities for exploring various perspectives on theory, research, and pedagogial applications in second language writing. APLNG 412 Teaching Second Language Writing (3) This course has been d
APLNG 450	Conducting Research in Applied Linguistics 3 Credits	This course is a survey of state-of-the-art research methodologies in applied linguistics. The course covers both quantitative and qualitative methodologies including corpus linguistics, conversation analysis, ethnography, int
APLNG 482Y	Introduction to Applied Linguistics 3 Credits	Application of theories of language to psycholinguistics, philosophy of language, anthropological linguistics, sociolinguistics, bi/multilingualism, second language acquisition and teaching. APLNG 482 Introduction to Applied
APLNG 484	Discourse-Functional Grammar 3 Credits	Develop a working knowledge of the structure of English and apply such knowledge to research and/or classroom situations. APLNG 484 Linguistic Structures for English as a Second Language (3)This course is designed to
APLNG 491	Theory: Second Language Acquisition 3 Credits	An investigation into current issues in the theoretical bases of second language acquisition. APLNG 491 Theory: Second Language Acquisition (3) This course considers the relationship between second language acquisition
APLNG 493	Teaching English as a Second Language 3 Credits	Theory, research, and pedagogy that focus on the teaching of English to speakers of other languages in varied contexts. APLNG 493 Teaching English as a Second Language (3) (IL) This course focuses on the teaching of En

APLNG 494	Capstone: Research and Practice in APLNG 3 Credits	This is a required course for all APLNG majors and only APLNG majors may take this course except with special permission from the instructor. As the culminating disciplinary experience for undergraduate APLNG majors, th
APLNG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
APLNG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AYFCE 211N	Foundations: Civic and Community Engagement 3 Credits	Through readings, discussion, deliberation, listening, and individual as well as collaborative action, this course gives students the opportunity to learn about and practice theories and habits of civic and community engageme
AYFCE 270	Consumer and Financial Skills 3 Credits	AYFCE 270 Consumer and Financial Skill (3) (GS) This course covers essential consumer and financial skills young adults need to successfully manage resources and personal finances. It is also designed to satisfy social anc
AYFCE 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AYFCE 295B	Leadership Jazz 3 Credits/Maximum of 3	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AYFCE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AYFCE 438	Living in an Increasingly Diverse Society 1-3 Credits/Maximum of 3	Students in this course will explore selected dimensions of diversity through lecture, discussion, speakers, active participation, and experiential learning.
AYFCE 495	Internship in Youth and Family Education Programs 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practicums, or internships.
AYFCE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AYFCE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AYFCE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARAB 1	Elementary Modern Standard Arabic I 4 Credits	Introduction to reading, writing, pronunciation, and aural comprehension of modern standard Arabic; simple grammatical forms; basic vocabulary.
ARAB 2	Elementary Modern Standard Arabic II 4 Credits	Continuation of ARAB 1 ; development of additional skills in conversation, reading, and writing; grammar and vocabulary building; cultural components. ARAB 2 Elementary Modern Standard Arabic II (4) (BA) This course me
ARAB 3	Intermediate Modern Standard Arabic 4 Credits	More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing; culturally-oriented readings and films. ARAB 3 Intermediate Modern Standard Arabic (4) (BA
ARAB 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARAB 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARAB 110	Arab Language, Cultures, and Current Topics 3 Credits	ARAB 110 is a fourth-semester (upper intermediate) Arabic culture and language course, designed for students who have successfully completed Arabic 003, or those who demonstrate an equivalent competence in Modern S
ARAB 164	Introduction to the Qur'an 3 Credits	The Qur'an is the sacred text of Islam. Revered by over a billion Muslims today, it is little understood by non-Muslims. This course will introduce students to the literary and religious meanings of this important text, which is se
ARAB 165	Islamic States, Societies and Cultures c. 600-1500 3 Credits	This course introduces students to the history and culture(s) of the Islamic world from c. 600-1500. The course develops a historical framework for understanding developments in religious and legal thought and practice, scie
ARAB 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARAB 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARAB 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ARAB 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARAB 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARAB 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARAB 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARAB 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARAB 401	Advanced Language & Cultures I 3 Credits	Fifth-semester Modern Standard Arabic: reading more complex texts, films, further development of conversation, composition skills, Arab cultures, current issues. ARAB 401 Advanced Language & Cultures I (3)(IL) (BA) This
ARAB 402	Advanced Language & Cultures II 3 Credits	Sixth-semester Modern Standard Arabic: reading more complex texts, films, further development of conversation, composition skills, Arab cultures, current issues. ARAB 402 Advanced Language & Cultures II (3) (IL) (BA) Thi
ARAB 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ARAB 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ARAB 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARAB 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARAB 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AE 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AE 124	Architectural Engineering Orientation 1 Credits	This course is a first-year seminar (FYS) designed for students interested in learning about architectural engineering as a major and careers in this field while also providing the skills for students to successfully navigate Penn
AE 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AE 197N	Special Topics - InterDomain 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GenEd course.
AE 202	Architectural Engineering Concepts 3 Credits	This course exposes students to (1) the interdependencies between various building systems (2) the interdisciplinary nature of the field of architectural engineering, and (3) the concept of professional practice in the building a
AE 210	Introduction to Architectural Structural Systems 3 Credits	Qualitative study of architectural structural systems; historical development of structures; insights of structural analysis and synthesis; comparative structural types. This course is intended for Architecture students. AE 210 I
AE 221	Building Materials, Methods and Modeling I 3 Credits	This course covers the fundamentals of: (1) building materials to form building systems, (2) building construction methods to assemble building systems, and (3) computer modeling strategies to convey system designs. All th
AE 222	Building Materials, Methods and Modeling II 3 Credits	This course covers materials and methods of construction used in residences, and the preparation of working drawings for a small building. The course objective is for students to understand construction documents, to com
AE 240	Programming and Data Science for Architectural Engineering 3 Credits	The goal of this course is to provide students with fundamental knowledge of programming and data science so that it can be applied to a broad set of problems in architectural engineering. The course introduces students t
AE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AE 308	Introduction to Structural Analysis 4 Credits	Algebraic and graphical methods of analysis of determinate members, deflections; introduction to indeterminate analysis methods. Course includes practicums. AE 308 Introduction to Structural Analysis (4) In this introducto
AE 309	Fundamentals of Architectural Acoustics 3 Credits	This course introduces students to the acoustical analysis and design of buildings by having a fundamental understanding of the physics of sound including frequency, wavelength, sound pressure, and the human auditory sy
AE 310	Fundamentals of Heating, Ventilating, and Air Conditioning 3 Credits	This course explores a variety of HVAC systems and presents methods of analyzing air-conditioning processes. HVAC systems maintain not only an acceptable level of thermal comfort within conditioned spaces, but also a h

AE 311	Fundamentals of Electrical and Illumination Systems for Building 3 Credits	In Fundamentals of Electrical and Illumination Systems for Buildings (AE 311), students gain an understanding of the basic knowledge and methods for analyzing, designing, and specifying building lighting and electrical syste
AE 372	Introduction to the Building Construction Industry 3 Credits	In this course, students will gain an understanding of the basic knowledge and methods used to organize and manage the delivery of a construction project. Construction topics covered include an introduction to the constru
AE 397	Special Topics 1-6 Credits/Maximum of 6	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AE 401	Design of Steel and Wood Structures for Buildings 3 Credits	Design of Steel and Wood Structures for Buildings (AE 401) is a first course in structural steel and wood design that focuses on the application of principles of structural behavior and material properties to the layout, analysis
AE 402	Design of Concrete Structures for Buildings 3 Credits	This course provides students in the Structural option with an ability to analyze and design reinforced concrete members along with an understanding of their theoretical behavior. The primary focus is on the analysis and des
AE 403	Advanced Steel Design for Buildings 3 Credits	By the end of the course, students will be able to analyze and design multi-story steel framing systems by: understanding and applying the provisions of national standards and specifications for design loads and associated
AE 404	Building Structural Systems in Steel and Concrete 3 Credits	In this course, students gain an ability to design simple building members in steel and concrete using current professional standards, specifications, and guidelines. Students will learn how to combine these members into sim
AE 405	Geotechnical Engineering 4 Credits	This course prepares students in the analysis, evaluation, and design of the most commonly used foundation systems to support buildings with an emphasis on shallow foundations. Included is a discussion of how all structu
AE 421	Architectural Structural Systems I 3 Credits	Qualitative and quantitative analysis and design of architectural structures, force flow; structure configurations; measurement and experiments; design studio critique.
AE 422	Architectural Structural Systems II 3 Credits	Continuation of A E 421, with emphasis on structural configuration and construction assemblies.
AE 430	Indeterminate Structures 3 Credits	Indeterminate Structures (AE 430) aims to help students develop their analytical understanding and skills related to multi-member determinate and indeterminate structures. A knowledge of statics, strength of materials, and b
AE 431	Advanced Concrete Design for Buildings 3 Credits	Advanced Concrete Design for Buildings (AE 431) is the second course in reinforced concrete design that builds upon previously learned skills in reinforced concrete design and analysis of statically determinate and indeterm
AE 432	Design of Masonry Structures 3 Credits	Design of Masonry Structures (AE 432) prepares students to design load-bearing and non load-bearing masonry structures. Although the emphasis is on reinforced masonry, some topics in unreinforced masonry are also cov
AE 440	BIM Data Management and Analytics for Multi-disciplinary Integration 3 Credits	This course provides students with fundamental knowledge of Building Information Modeling (BIM) applications in a whole project lifecycle, BIM-based data analysis, data visualization, and multi-disciplinary coordination. The
AE 441	Engineering Lifecycle Economic Analysis for Buildings 1 Credits	This course will focus on understanding the economics of the building lifecycle and the analytical approaches to evaluate higher cost building systems that may reduce overall lifecycle costs. Buildings are typically prototype
AE 445	Building Retuning 3 Credits	Building Retuning focuses on the identification and implementation of energy-efficient retuning measures for commercial buildings to detect energy savings opportunities and implement improvements. This class introduces t
AE 449	Ultra-High Performance Buildings: Passive House Principles & Design 3 Credits	This course covers the principles, methods, and verification processes behind passive building design, with a focus on building envelope and mechanical system design, while providing a foundation in fundamental building s
AE 453	Load and Energy Use Simulations for Buildings 3 Credits	This course provides students with fundamental knowledge and an understanding of the methods and computational tools used in predicting and determining energy use of whole buildings and important subsystems. Load a
AE 454	Advanced Heating, Ventilating, and Air Conditioning 3 Credits	This course provides students with fundamental theories and advanced knowledge to design HVAC systems for energy-efficient, healthy, and sustainable buildings. Students learn approaches to analyzing complex and integ
AE 455	Advanced Heating, Ventilating, and Air Conditioning System Design 3 Credits	This focuses on the development of skills necessary to identify HVAC system types appropriate for a given building and to perform a system selection exercise to determine the best of several design alternatives based on cri
AE 457	HVAC Control Systems 3 Credits	In this course, students will gain an understanding of basic automatic control theory, control system components, and control system design for applications related to building heating, ventilation, and air conditioning system
AE 458	Advanced Architectural Acoustics and Noise Control 3 Credits	This course focuses on noise control and room acoustics in buildings with an emphasis on the control of HVAC system noise, sound isolation in buildings, speech privacy, and acoustic design variables in spaces for speech a
AE 459	Measurement Science for High Performance Building Systems 3 Credits	This course provides students with hands-on experience in the measurement of building energy performance, thermal comfort, and indoor air quality. Students learn standardized test methods and instrumentation for field inv
AE 461	Architectural Illumination Systems & Design 3 Credits	This course enables students to design basic lighting systems by providing them with a working knowledge to (1) evaluate the applicability of different lamp, luminaire, and control types in a particular design situation; (2) esta
AE 462	Architectural Lighting Controls 3 Credits	AE 462 is designed for students who wish to gain a more thorough understanding of architectural lighting controls and integration of controls with other building systems. This course examines how sustainability, human neec
AE 463	Daylight Analysis of Roman Architecture 3 Credits	Solar geometry, building orientation and form, daylight design methods, characterization of interior and exterior lighting conditions. Offered in Rome. Analysis of Roman architecture from the perspective of daylight. Topics inc
AE 464	Advanced Architectural Illumination Systems & Design 3 Credits	The course focuses on advanced topics related to lighting design such as luminous flux transfer and its application to lighting analysis tools, advanced issues in photometry, advanced control systems, and the design and eva
AE 466	Computer Aided Lighting Design 3 Credits	This course provides students with a thorough understanding of the steps involved in the lighting design process, including the design and analysis for outdoor area; floodlighting; and interior applications, including design cri
AE 467	Advanced Building Electrical System Design 3 Credits	Advanced Building Electrical System Design (AE 467) offers an in-depth look at electrical power distribution system design for buildings. The course reviews electrical calculation fundamentals, power distribution layout and e
AE 468	Advanced Building Electrical and Communication Systems 3 Credits	Special Building Electrical and Communication Systems is an elective course within the architectural engineering program. It addresses specialized components and analysis of building electrical systems, cost and availability
AE 469	Photovoltaic Systems Design and Construction 3 Credits	This course offers in-depth study in the areas of solar energy sources, photovoltaic (PV) systems design, and their interface with building electrical systems. The course provides an overview of PV systems and common appli
AE 470	Residential Building Design and Construction 3 Credits	Residential Building Design and Construction (AE 470) familiarizes students with the residential construction industry and allows students to apply principles studied in other coursework to residential buildings. The content of
AE 471	CONSTRUCTION MANAGEMENT OF RESIDENTIAL BUILDING PROJECTS 3 Credits/Maximum of 3	Understanding residential project planning, management, contracts, budget, administration, and execution; discussion of the life cycle of a residential construction business. AE 471 Construction management of Residential B
AE 472	Building Construction Planning and Management 3 Credits	This course introduces students to the processes by which building construction contractors acquire building projects, and the range of services typically provided on these projects. This course offers a working understandin
AE 473	Building Construction Management and Control 3 Credits	In Building Construction Management and Control (AE 473), students will learn how to perform detailed construction planning, identify potential problems during construction, and manage changes throughout a construction
AE 475	Building Construction Engineering I 3 Credits	Building Construction Engineering I (AE 475) offers students core knowledge about the construction processes and methods of different construction systems. Key issues for the construction management of these systems a
AE 476	Building Construction Engineering II 3 Credits	Construction of mechanical and electrical systems in major buildings; fire protection, sound control, elevatoring; trade coordination; manufacturers' developments; computer application.
AE 477	Material Science for Architectural Engineers 3 Credits	This course offers an in-depth understanding of the structure-processing-properties relationship of common building and construction materials. The course provides a detailed understanding of the atomic-level composition
AE 481W	Comprehensive Architectural Engineering Senior Project I 4 Credits	Building project selection and preparation of overall plan; preliminary investigation of building design and construction issues; creation of individual Capstone Project Electronic Portfolio (CPEP) and project proposal required.
AE 482	Comprehensive Architectural Engineering Senior Project II 4 Credits	Continuation of AE 481 Engineering analysis of building systems; emphasis on analysis and design of building structural, mechanical, lighting/electrical, and construction related systems. Final written report, web-based proj
AE 483	Comprehensive Architectural Engineering Senior Project II - IUG 1 Credits	In this course, students enrolled in the Integrated (IUG) Bachelor and Masters of Architectural Engineering degree programs address the AE undergraduate capstone project breadth requirements, as well as develop related m
AE 494H	Honors Thesis 1-6 Credits/Maximum of 12	This course provides students with research skills related to the following: problem formulation, literature review, research study design, data collection, and analysis of results. The student¿s research is directed by a faculty s
AE 494M	Senior Honors Thesis 4 Credits	Comprehensive Architectural Engineering Senior Project development and planning with an honors thesis focus. In this course, an honors student in architectural engineering will work on a real-world building project which th
AE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AE 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AE 498F	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
AET 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
AET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARCH 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ARCH 99	Foreign Studies--Architecture 1-15 Credits/Maximum of 15	Individual or group instruction conducted in a foreign country.
ARCH 100	Architecture and Ideas 3 Credits	General introduction to world architecture, emphasizing the relationship between concepts, philosophies, values and ideologies in shaping the built environment. ARCH 100 Architecture and Ideas (3) (GA)(BA) This course me
ARCH 121	Visual Communications I 2 Credits	Development of two and three-dimensional graphic communications skills and techniques required for the practice of architecture. ARCH 121 Visual Communications I (2)The course is designed to introduce two and three-d
ARCH 122	Visual Communications II 2 Credits	Development of two-dimensional digital graphic communications skills and techniques required for the practice of architecture. ARCH 122 Visual Communications II (2)The course is designed to introduce students to two-dir
ARCH 130A	Basic Design and Research I 3 Credits	This beginning design studio will prepare students to communicate design ideas through drawing and modeling, promoting analog/traditional techniques, in addition to digital media and processes in design and presentation
ARCH 130B	Basic Design and Research II 3 Credits	This architectural design studio is organized around exercises in precedent research and analysis, site analysis, response to building program and the integration of research into design proposals. Students will learn to prese

ARCH 131	Basic Design Studio I 4 Credits	An introduction to the basic concepts, methods, and skills of architectural design in a project-based, active learning, studio environment. ARCH 131 Basic Design Studio I (4)This course is an introduction to the basic concep
ARCH 132	Basic Design Studio II 4 Credits	Continuation of ARCH 131 which further explores basic concepts, methods, and skills of architectural design with an emphasis on craftsmanship. ARCH 132 Basic Design Studio II (4)This course is a continuation of ARCH 1
ARCH 170N	Introduction to Sustainable Architecture 3 Credits	US buildings account for almost 40% of national CO2 emissions, 39% of the US total energy consumption, and 60% of US electricity alone. Worldwide, buildings consume nearly 40% of the world's energy, 25% of its wood,
ARCH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ARCH 199	Foreign Studies--Architecture 1-15 Credits/Maximum of 15	Individual or group instruction conducted in a foreign country.
ARCH 203	Materials and Building Construction I 3 Credits	Instruction in the design and construction of buildings utilizing wood and steel. ARCH 203 Materials and Building Construction I (3) This course serves as an introduction to common architectural building materials and assoc
ARCH 204	Materials and Building Construction II 3 Credits	This course will continue the presentations of ARCH 203 , with a focus on concrete and masonry materials. ARCH 204 Materials and Building Construction II (3) The course is the second part of a two-semester sequence, fol
ARCH 210	Ideas Across Time in Architecture and Urbanism 3 Credits	This course presents a transversal history of ideas, arguments, and visions that shape the built environment within their cultural, technological, and philosophical contexts. Buildings, landscapes, and cities embody ideas abo
ARCH 231	Architectural Design I 6 Credits	Design of limited environments within defined constraints. ARCH 231 Architectural Design I (6) The second-year design curriculum introduces the student to the complexity of the architectural whole. The curriculum bridges t
ARCH 232	Architectural Design II 6 Credits	Design of limited environments within defined constraints. ARCH 232 Architectural Design II (6) The second-year design curriculum emphasis is on introducing the student to the complexity of the architectural whole. The cur
ARCH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARCH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARCH 299	Foreign Studies--Architecture 1-15 Credits/Maximum of 15	Individual or group instruction conducted in a foreign country.
ARCH 311W	Architectural and Planning Theories 3 Credits	Architectural theory course with a strong focus on the reading and writing of essays about architecture and related fields. ARCH 311 Architectural and Planning Theories (3) ARCH 311 is a required course in the BARCH curri
ARCH 316	Analysis of Human Settlements: Cities 3 Credits	This course focuses on the design and analysis of cities from ancient to modern time periods in the U.S. and the world, taking into account the cultural and historical ways human settlements develop, how cities relate to one
ARCH 317	Theory of Modern Japanese Architecture 3 Credits	Introduction to the development of modern Japanese architecture from the Meiji Restoration of 1868 to the present day. ARCH 317 Theory of Modern Japanese Architecture (3)ARCH 317 outlines a lineage of ideology in Jap
ARCH 331	Architectural Design III 6 Credits	Development of the design process through organizational methodologies, based on physical, functional, and social-behavioral determinants. ARCH 331 Architectural Design II (6) Development of the design process through
ARCH 332	Architectural Design IV 6 Credits	Development of the design process through organizational methodologies, based on physical, functional, and social-behavioral determinants. ARCH 332 Architectural Design IV (6) Development of the design process through
ARCH 380	Building Environmental Systems I 3 Credits	ARCH 380 Building Environmental Systems I (3) introduces Architecture students to the topics of building thermal environment, and passive and mechanical heating/cooling systems. Thermal environment topics include therr
ARCH 381	Building Environmental Systems II 3 Credits	ARCH 381 Building Environmental Systems II (3). This course is a complement to ARCH 380. All environmental control systems other than thermal environmental systems are covered in this course. ARCH 381 introduces arcl
ARCH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ARCH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARCH 410	Building Material Reclamation & Reuse 3 Credits	This course is a very hands-on, project-based seminar focusing on the theory and practice of building material salvage and recycling. Through active and applied learning, students will gain experience in handling, preserving
ARCH 412	Integrative Energy and Environmental Design 3 Credits	Concepts and strategies for the environmentally conscious design of the built environment.
ARCH 419	Design Research and Architectural Programming 3 Credits	ARCH 419 prepares undergraduate Architecture students with the skills and tools to conduct research contributing to the pursuit of an architectural idea in a rigorous, in-depth manner, and then subsequently utilize the acqui
ARCH 441	Architectural Design Analysis 3 Credits	Studies in principles and elements of design; planning for human use; the relationship of space to physical and social environment. Architectural Engineering majors only. ARCH 441 Architectural Design Analysis (3) Studies in
ARCH 442	Architectural Design Analysis 3 Credits	Continuation of ARCH 441, with emphasis on functional relationship of space, form, structure, and building groups. Architectural Engineering majors only. ARCH 442 Architectural Design Analysis (3) Continuation of ARCH 44
ARCH 451	Architectural Professional Practice 3 Credits	A study of architectural practice in today's society: education, registration, office practice, codes, standards, construction industry, contracts, and legal documents. ARCH 451 Architectural Professional Practice (3) ARCH 45
ARCH 480	Technical Systems Integration 3 Credits	Presentations of buildings' analyses from a multiplicity of viewpoints: architectural, spacial, environmental, mechanical, construction assembly. ARCH 480 Technical Systems Integration (3) This course is a synthesis of topics
ARCH 481	Digital Design Media 3 Credits	Advanced course in digital modeling, rendering, animation and non-linear video for architectural investigations.
ARCH 482	Foundations in Shape Grammars 3 Credits	Shape grammars are a powerful formalism for the generative description of designs and a key discourse in design computation. The formalism is distinctive for its interest in developing a mathematics of design through visua
ARCH 491	Architectural Design Research Studio - Directed 12-18 Credits/Maximum of 18	Problems in architectural planning and design; and/or programming, implementation methodologies and applications for various environmental design scales. ARCH 491 Architectural Design Research Studio (6) It is the goal
ARCH 492H	Architectural Design Studio 6 Credits	Continuation of select ARCH 491 sections with concentration and specialization options.
ARCH 495	Advanced Architectural and Related Design/Construction Work Experience II 1-6 Credits/Maximum of 12	Supervised off-campus, nongroup instruction including field experiences, practica, or architectural and related design/construction work experience. A final presentation of activities will be evaluated by a faculty member in th
ARCH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARCH 496H	Independent Study - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARCH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARCH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARCH 499A	Rome Study-Architectural Design 6 Credits/Maximum of 12	Individual or group instruction conducted in Rome, Italy. ARCH 499A Foreign Study - Architectural Design VI (6) The semester abroad design work will focus on the difficult problem of creating new construction in the presenc
ARCH 499B	Architectural Analysis 3 Credits/Maximum of 12	ARCH 499B Architectural Analysis (3) (IL)Architecture is amplified and embodied in cities. Since most architecture is set in cities and the city is itself an architecture, it becomes necessary for us to evaluate the relationships th
ARCH 499C	Urban Studies 3 Credits/Maximum of 12	ARCH 499C Urban Special Topics (3) (IL)The course is a presentation of the history of Rome through the medium of its maps. The well documented cartographic history of the city is presented along with the morphological ch
ARCH 499F	Architectural Design Foreign Study 3-6 Credits/Maximum of 12	The abroad design studio serves students in their fifth year of the BARCH program, giving them the option of studying abroad for a semester additional to their required Rome semester. This studio will provide our students w
ARMY 101	Introduction to the Army 3 Credits	Army 101 focuses on introduction to the Army and basic Soldier skills. It introduces Cadets to the Army and the Profession of Arms. Students will examine the Army Profession and what it means to be a professional in the U
ARMY 102	Foundations of Leadership 3 Credits	Army 102 introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, time management, goal set
ARMY 103	Physical Training Laboratory 1 Credits/Maximum of 8	This course is designed to guide students through an intentional physical fitness program. The course follows the ARMY Physical Fitness Training Program, but is open to any student. The design consists of a systematic incr
ARMY 201	Leadership and Ethics 3 Credits	Army 201 focuses on leadership and ethics. The course adds depth to the Cadets knowledge of the different leadership styles. Cadets will conduct a leadership analysis of famous leaders and self-assessment of their own le
ARMY 202	Army Doctrine and Decision Making 3 Credits	Army 202 focuses on Army doctrine and decision making. The course begins with analytical techniques, creative thinking skills and the Army problem solving process as related to situations faced by leaders when making de
ARMY 301	Training Management and the Warfighting Functions 3 Credits	Army 301 focuses on training management and the warfighting functions. It is an academically challenging course where you will study, practice, and apply the fundamentals of Training Management and how the Army opera

ARMY 302	Applied Leadership in Small Unit Operations 3 Credits	Army 302 focuses on applied leadership in small unit operations. It is an academically challenging course where you will study, practice, and apply the fundamentals of direct level leadership and small unit tactics at the plato
ARMY 401	The Army Officer 3 Credits	Army 401 focuses on development of the Army Officer. It is an academically challenging course where you will develop knowledge, skills, and abilities to plan, resource, and assess training at the small unit level. You will also
ARMY 402	Company Grade Leadership 3 Credits	Army 402 is an academically challenging course where you will develop knowledge, skills, and abilities required of junior officers pertaining to the Army in Unified Land Operations and Company Grade Officer roles and respo
ARMY 496	Independent Studies 1-9 Credits/Maximum of 9	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ART 1	Introduction to the Visual Arts 3 Credits	ART 1 is a course on understanding and interpreting art and serves as an introduction to the visual arts. The material follows an interdisciplinary approach to the practice of the visual arts, examining the social, cultural, histori
ART 2	Interactive Learning and Web-Design 3 Credits	Introduce students to research on-line, preparing verbal, visual and other elements for presentation of outcomes and posting them to the Internet. ART 2 Interactive Learning and Web-Design (3) (GA)(BA) This course meets th
ART 3	Visual Images on the Web 3 Credits	Introduce students to using visual images for communication on the World Wide Web. ART 3 Visual Images on the Web (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is constructed to i
ART 10	Introduction to Visual Studies 3 Credits	ART 10 is an introductory art appreciation course created for students without any artistic background. This course introduces students to various art movements, cultural influences, artistic genres, artists, and their artwork.
ART 11	First-Year Seminar- School of Visual Arts 1 Credits/Maximum of 1	Facilitate adjustment to high expectations, demanding workload, increased academic liberties, and other aspects of college life in the arts. The First-Year Seminar will help facilitate students' adjustment to the high expectatic
ART 17	Introduction to Metal Arts 3 Credits	Introduction for non-art majors to fundamental jewelry making and small-scale metalsmithing processes including fabrication, surface treatment, and finishing of metalwork. ART 17 Introduction to Metal Arts (3) (GA)(BA) This
ART 20	Introduction to Drawing 3 Credits	ART 20 is intended as a general survey of the art of drawing for non-majors. As a studio offering, emphasis is placed on hands-on studio activities, which promote visual literacy and on the various conventions used in drawin
ART 30	Introduction to Sculpture 3 Credits	Introduction to sculpture for non-art majors consisting of lectures/basic studio work coordinated to cover broad range of processes. ART 30 Introduction to Sculpture (3) (GA)(BA) This course meets the Bachelor of Arts degre
ART 40	Introduction to Printmaking 3 Credits	Instruction and practice in elementary printmaking and papermaking processes. ART 40 Introduction to Printmaking (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. ART 40 is intended as a general s
ART 50	Introduction to Painting 3 Credits	Introductory experience in making of art through painting media; designed for non-majors seeking a general overview of studio practice. ART 50 Introduction to Painting (3) (GA)(BA) This course meets the Bachelor of Arts de
ART 51N	Meteorology and Visual Arts: To Know is to See 3 Credits	This course examines the inter-relationship between what we know and what we see, through an introductory exploration of art and science. Engaging students in the study of weather formation, mainly clouds, artistic depict
ART 80	Introduction to Ceramics 3 Credits	Introduction to the concepts and techniques fundamental to the making of pottery and ceramic sculpture. ART 80 Introduction to Ceramics (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. ART 080 i
ART 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ART 98	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ART 100	Concepts and Creation in the Visual Arts 3 Credits	A study of the personal and cultural foundations of artistic creation and practice of creative production in the art studio. ART 100 Concepts and Creation in the Visual Arts (3) (BA) This course meets the Bachelor of Arts degre
ART 101	Introduction to Web Design 3 Credits	A beginning level course in Web Design, with emphasis on designing with standards to assure accessibility and effective communication. ART 101 is a beginning level web design course that is concerned with the designing
ART 102	Beginning Computer Aided Design for Artists 3 Credits	ART 102 is an introduction to Computer Aided Design as an artistic media. Students will model objects in a virtual environment and then realize their objects tangibly though 3D printing and other digital output processes. AR
ART 110	Ideas as Visual Images 3 Credits	Introduction to the ideational relationships among subject, form, and content in visual images.
ART 111	Ideas as Objects 3 Credits/Maximum of 3	An introduction to the relationship between ideas and the creation of three-dimensional objects. In this course, students will learn concepts, methods, and vocabulary relative to the production of three-dimensional objects. T
ART 122Y	Commentary on Art 3 Credits	An introduction to verbal commentary, both oral and written, about art. The development of critical and expressive skills given emphasis.
ART 144	Climate Change: Arts, Agency and Activism 3 Credits	This course introduces students to contemporary art activism and environmental and humanitarian issues through research presentations, discussions and the production of artwork. It encourages students to imagine the eff
ART 160N	STEAM: Connecting Art to Science, Technology, Engineering and Mathematics 3 Credits	Drawing from traditions of scientific illustration, fine art and literary interpretations of scientific concepts, and collaborations between scientists and artists, this course will establish the ways in which the arts and the creative

ART 165	Artistic Concepts of Space 3 Credits	A studio course that utilizes lecture and varied media experiences to investigate space as artistic expression. ART 165 Artistic Concepts of Space (3) ART 165 Artistic Concepts of Space is a hands-on studio course supplem
ART 166	Artistic Concepts of Form 3 Credits	Modeling in light and dark - with particular attention to drawing. (Approximately 5 weeks) Cultural/historical variations of form - including, but not limited to: Egyptian, Medieval, Byzantine, and Modern, and Contemporary. (Ap
ART 168	The Digital Medium 3 Credits	ART 168 The Digital Medium (3) This course will provide a much needed introductory technological/digital component wherein computing will be discussed as a media, rather than a tool. Students will be engaged in the creat
ART 170N	Plant and Microbial Art 3 Credits	This inter-domain general education course provides a cross-disciplinary platform for plant- and microbe-facilitated creative production and art-mediated scientific learning. The course balances studio art activities with lectu
ART 175N	Intersections Between Art and Psychology 3 Credits	This course investigates the historical and theoretical intersections between psychology and art. These intersections are organized upon three general domains of perception, cognition, and expression. Within these domain t
ART 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ART 197N	Special Topics - Interdomain 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GenEd course.
ART 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ART 199	Foreign Studies--Art 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ART 207N	LGBTQ+ Identity, Culture and The Arts 3 Credits	WMNST 207N: LGBTQ+ Identity, Culture and the Arts will blend theories and methods in the Social and Behavioral Sciences (GS) with those of the Integrative Arts (GA). The course introduces key ideas, concepts and issues
ART 211	Introduction to Digital Art and Design Criticism 3 Credits/Maximum of 3	An introduction to the language, aesthetics and cultural impacts of digital art and design in contemporary society. ART 211 Introduction to Digital Art and Design Criticism (3) (US)(BA) This course meets the Bachelor of Arts d
ART 211Y	Introduction to Digital Art and Design Criticism 3 Credits	An introduction to the language, aesthetics, and cultural impacts of digital art and design in contemporary society.
ART 220	Figure Drawing 3 Credits	Drawing from life. Emphasis on developing the ability to comprehend and record the human figure. ART 220 Figure Drawing (3) This course is intended to further investigate the art of figure drawing for art majors. As a studio
ART 223	Drawing: Techniques, Materials, and Tools 3 Credits	Drawing with an emphasis on organization and the development of drawing skills through a variety of techniques, materials, and tools. ART 223 Drawing: Techniques, Materials, and Tools (3) This course is intended to further
ART 230	Beginning Sculpture 3 Credits	An introduction to sculpture consisting of lectures, demonstrations, and basic studio work coordinated to cover a broad range of processes. ART 230 Beginning Sculpture (3) This course is intended to investigate the art of sc
ART 240	Beginning Printmaking 3 Credits	An introduction to printmaking consisting of lectures, demonstrations, and studio work to cover a broad range of processes. ART 240 Beginning Printmaking (3) This course will consist of lectures, demonstrations, and studio
ART 250	Beginning Oil Painting 3 Credits	The materials and techniques of painting in oil and their uses in creative painting on panels and canvas. ART 250 Beginning Oil Painting (3) This course is designed to teach beginning students the basic fundamentals of paint
ART 260	Water Media 3 Credits/Maximum of 6	This course develops artistic expression in water-based painting media while developing skills with watercolor, ink, acrylic, and natural pigments. ART 260 Water Media introduces techniques and concepts relevant to the crea
ART 265	Artistic Concepts of Color 3 Credits	A studio course that utilizes lecture and various media to investigate color as artistic expression. ART 265 Artistic Concepts of Color (3) ART 265 Artistic Concepts of Color is a hands-on studio course supplemented by lectur
ART 266	Artistic Concepts of Light 3 Credits	A studio course that utilizes lecture and varied media experiences to investigate light as artistic expression. ART 266 Artistic Concepts of Light (3) ART 266 Artistic Concepts of Light provides students with necessary concep
ART 269	Methods and Materials I 3 Credits/Maximum of 9	A studio course that focuses on specific media or techniques reflecting varied faculty expertise. ART 269 Methods and Materials I (3) This course,provides students with the opportunity to experience particular areas of visual
ART 280	Beginning Ceramics 3 Credits	The fundamentals of ceramics, throwing, hand-building, and glazing; acquainting the student with ceramic materials, techniques, and philosophy. ART 280 Beginning Ceramics (3) This course is intended to further investigate
ART 290	Beginning Photography 3 Credits	Fundamental techniques and approaches to the art of photography utilizing digital photographic technologies; digital camera required. ART 290. Beginning Photography (3)(BA) This course meets the Bachelor of Arts degree
ART 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ART 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ART 299	Foreign Study--Art 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ART 320	Advanced Drawing 4 Credits/Maximum of 8	Drawing for art majors; emphasis on sustained individual approaches based on figurative and nonfigurative sources. ART 320 Advanced Drawing (4 per semester/maximum of 8) This course is for students who have a firm co
ART 330	Intermediate Sculpture: Metal Fabrication and Mixed-media 4 Credits/Maximum of 8	Development of technical and conceptual skills through metal fabrication, welding, and mixed-media processes. ART 330 Intermediate Sculpture: Metal Fabrication and Mixed-media (4 per semester/maximum of 8) This cour
ART 331	Intermediate Sculpture: Metal Casting and Mold-Making 4 Credits/Maximum of 8	Development of technical and conceptual skills through metal casting and mold- making processes. ART 331 Intermediate Sculpture: Metal Casting and Mold-Making (4 per semester/maximum of 12) This course is for stude
ART 340	Printmaking 4 Credits/Maximum of 8	Development of technical and expressive skills through selected problems in one or more of the print processes. ART 340 Printmaking (4 per semester/maximum of 8) This course is for students who have a firm commitment
ART 341	Intermediate Printmaking: Intaglio/Relief 4 Credits	Instruction and practice in the fundamentals of intaglio and relief printmaking processes in their relation to the fine arts. ART 341 Intermediate Printmaking: Intaglio/Relief (4) This course is designed for the student who is inter
ART 342	Intermediate Printmaking: Lithography/Serigraphy 4 Credits	Instruction and practice in the fundamentals of the lithographic and serigraphic processes and their relationship to the meaning of the print. ART 342 Intermediate Printmaking: Lithography/Serigraphy (4) This course is desigr

ART 343	New Media Printmaking 4 Credits/Maximum of 8	A studio course concentrating on the integration of new media and traditional printmaking processes. ART 343 New Media Printmaking (4 per semester/maximum of 8) ART 343 is a studio art class that focuses on creating ar
ART 350	Intermediate Painting 4 Credits/Maximum of 8	A variable offering in painting; course conditions defined on a rotating basis according to needs of individuals and groups. ART 350 Intermediate Painting (4 per semester/maximum of 8) This course is will further develop pair
ART 365	Themes and Issues I 3 Credits	An advanced studio course that emphasizes individual approach to theme oriented problem solving through traditional and non-traditional multi-media explorations. ART 365 Themes and Issues I (3) ART 365 contains a com
ART 366	Themes and Issues II 3 Credits	An advanced studio course that emphasizes individual approach to theme oriented problem solving through traditional and non-traditional multi-media explorations. ART 366 Themes and Issues II (3) ART 366 contains a com
ART 380	Intermediate Throwing 4 Credits/Maximum of 12	Intermediate ceramics course with focus on using wheel and throwing skills leading to personal expression in form, glazing, and firing. ART 380 Intermediate Throwing (4 per semester/maximum of 12) The purpose of this cou
ART 381	Intermediate Handbuilding 4 Credits/Maximum of 12	An intermediate ceramics course with a focus on handbuilding techniques, leading to personal expression in forming, glazing, and firing. ART 381 Intermediate Handbuilding (4 per semester/maximum of 12) The purpose of th
ART 390	Introduction to Photochemical Photography 4 Credits	Introduction to the fundamentals of black and white photochemical photography. ART 390 Introduction to Photochemical Photography (4)(BA) This course meets the Bachelor of Arts degree requirements. ART 390 will explor
ART 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ART 399	Foreign Study--Art 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ART 404	Art and Life: Where They Intersect 4 Credits	This course addresses where art and life meet; how life influences what artists make, and how art influences our lives. "Art and Life: Where They Intersect" focuses on interdisciplinary areas that address notions of creativity, c
ART 409	Museum Studies 3 Credits	An introduction to the professional activities that occur in art museums. ART 409 / ARTH 409 Museum Studies (3)(BA) This course meets the Bachelor of Arts degree requirements. This course introduces students to the broa
ART 411	Seminar in Contemporary Art 3 Credits/Maximum of 6	Trends in contemporary art investigated within the framework of studio visitations, museum tours, and through other related avenues of encounter. ART 411 Seminar in Contemporary Art (3) This seminar on contemporary art
ART 413	Performance Art 3 Credits	The development, production, and presentation of performance art works, and the study of performance art theory and history. ART 413 Performance Art (3)(BA) This course meets the Bachelor of Arts degree requirements. T
ART 421	Drawing 4 Credits/Maximum of 12	Drawing for advanced students, with total emphasis on sustained individual approaches.
ART 422	Advanced Figure Drawing 4 Credits/Maximum of 8	Concentrated work in recording and understanding the human figure.
ART 430	Advanced Sculpture 4 Credits/Maximum of 12	Advanced work in sculpture, with an emphasis on professional practice and individual development.
ART 431	Installation Art 4 Credits	Study and production of original visual statements through installation work as an art form.
ART 432	Flexible Molds: Parting Seams and Sculptural Concepts 4 Credits/Maximum of 8	ART 432 FLEXIBLE MOLDS: PARTING SEAMS & SCULPTURAL CONCEPTS introduces the relevancy of producing material specific multiples in a contemporary sculptural practice. It will offer students a broad understanding
ART 433	Sustainable Studio 4 Credits/Maximum of 8	Sustainable Studio is designed to provide students the opportunity to form a community of makers interested in issues regarding sustainability as related to artistic practice. From rural Pennsylvania to megacities of China, pe
ART 438	The Body: Issues and Objects 4 Credits/Maximum of 8	Creating representations of the human body and related objects as a means of sculptural expression. ART 338 The Body: Issues and Objects (4 per semester/maximum of 8) This course is for students who have a firm comm
ART 440	Advanced Printmaking 4 Credits/Maximum of 12	Individual projects in one or more of the printmaking processes. Emphasis is on developing a portfolio of prints.
ART 446	Artists Books 4 Credits	Study and production of original visual statements through the book as an art form. ART 446ART 446 Artists Books (4) This course will consist of lectures, demonstrations, and studio practice in production of artists books. L
ART 450	Advanced Painting 4 Credits/Maximum of 12	Development of the artist through a series of commitments; each semester serves as a contractual agreement along professional lines.
ART 455	Advanced Painting Critique 4 Credits/Maximum of 8	The painter in relation to his peers and his profession.
ART 465	Individual Approaches I 3 Credits	An advance studio where students are expected to explore personal themes and individual concepts in their art work. ART 465 ART 465 Individual Approaches I (3) ART 465 is an advanced studio course concentrating on cr
ART 466W	Individual Approaches II 3 Credits	An advance studio/lecture addressing the preparation for potential employment and/or entrance into graduate studies. ART 466W ART 466W Individual Approaches II (3)(BA) This course meets the Bachelor of Arts degree re
ART 468	The Intermediate Digital Medium 3 Credits	An advanced studio course using the computer as an artistic media. ART 468 ART 468 The Intermediate Digital Medium (3) This course will provide the much needed advanced technological/digital component wherein comp
ART 469	Methods and Materials II 3 Credits/Maximum of 9	A studio course that focuses on specific media or techniques reflecting varied faculty expertise. ART 469 ART 469 Methods and Materials II (3) This course provides students the opportunity to experience particular areas of
ART 476	History and Theory of Digital Art 3 Credits	History and theories of contemporary digital art emphasizing humanistic approaches to technology. ART 476 / ARTH 476 History and Theory of Digital Art (3)(BA) This course meets the Bachelor of Arts degree requirements. A
ART 477	Curator's Workshop 3 Credits	In Curator's Workshop, students will gain valuable experience in curatorial practices, exhibition design, and arts administration. Focus topics include how to generate an effective exhibition concept; liaising with artists, institu
ART 480	Advanced Ceramic Arts 4 Credits/Maximum of 12	Individual exploration of ceramic materials and construction leading to graduate study or career development as a professional potter.
ART 490	View Camera Photography 4 Credits	Experience with diverse camera formats and applications; particular emphasis on view camera. ART 490ART 490 View Camera Photography (4)(BA) This course meets the Bachelor of Arts degree requirements. ART 490 will
ART 494	Research Projects Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ART 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ART 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ART 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ART 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ART 499	Foreign Studies--Art 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AED 62.00	Contemporary African and African American Arts and Culture 3 Credits	Contemporary African and African American Arts and Culture is a hybrid studio/web course in which students have first-hand experiences with African and African American artists, dancers, writers, and musicians to gain und
AED 99.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AED 101S	Introduction to Art Education 3 Credits	This course introduces students to issues, concepts, and ideas in Art Education. A ED 101S Introduction to Art Education (3) The objective of the course is to introduce students to basic ideas, areas of inquiry, and experienc
AED 199.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AED 201W	History and Philosophy of Art Education in Schools and Cultural Institutions 3 Credits	Introduction to historical, philosophical, and sociological foundations art education in schools and cultural institutions, museums, and community organizations. A ED 201W A ED 201W History and Philosophy of Art Educatio
AED 211W	Interpreting Art Experience: Social-cultural Perspectives 3 Credits	A ED 211W Interpreting Art Experience: Social-Cultural Perspectives (3) (W)(GA)(BA) This course meets the Bachelor of Arts degree requirements and is a "writing across the curriculum" course. Through reflective and explora
AED 212.00	Interpreting Art Experience: Educational Implications 1 Credits	In-depth study of the educational implications of the information on art making and response introduced in A ED 211. A ED 212 Interpreting Art Experience: Educational Implications (1) A special discussion section attached t

AED 225.00	Diversity, Pedagogy, and Visual Culture 3 Credits	A ED 225 Diversity, Pedagogy, and Visual Culture (3) (GA;US)(BA) meets the Bachelor of Arts degree requirements. This course is an examination of diversity, pedagogy, and visual culture using interdisciplinary approaches ar
AED 233N	Learning in Maker Cultures 1-3 Credits	This course is an examination of the strategies, techniques, and theories of learning associated with participatory communities of art, design, and craft practice often found in makerspaces, as well as an introduction to case
AED 296.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AED 297.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AED 299.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AED 303.00	The Visual Arts in the Elementary School 3 Credits	Basic concepts of current art education theory and practice for the elementary teacher.
AED 322.00	Media Arts Pedagogies, Transcultural Dialogues, & Bioethics 3 Credits	The course explores how emerging technologies impact beliefs, practices, research, and communication regarding the nature of knowledge, learning, teaching, remix culture, visuality, materiality, self, and art. Engage with em
AED 323.00	Visual Culture and Art Education 3 Credits	The study and creation of contemporary art forms as visual culture critiques provide curricular and pedagogical approaches to art education. A ED 323 Visual Culture and Art Education (3)This course is for Art Education maj
AED 355Q	Show Me Where it Hurts: Healthcare and Creative Inquiry 3 Credits	Show Me Where It Hurts: Healthcare and Creative Inquiry is an interdisciplinary exploration of the dynamics of healthcare using both storytelling and artmaking as research methods. Stories of healthcare professionals, caregi
AED 397.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AED 399.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AED 401.00	Curricula, Pedagogy, and Assessment in Art Education 3 Credits	Preparation of curricula, pedagogical, and assessment strategies for elementary/secondary school and museum art education programs.
AED 489.00	Advanced Practicum 4 Credits	This course provides a broad exploration of student teaching experience and professional practices at the preK, primary and secondary levels. In particular, it investigates areas of curriculum development and classroom man
AED 490.00	Capstone Course in Art Education 3 Credits/Maximum of 3	Synthesis of preservice art education coursework; introduction to professional practices and standards; completion of teaching and learning portfolio. AED 490 Capstone Course in Art Education (2) The capstone course has
AED 494.00	Schools and Museums 3 Credits	Museum education: issues, theories of aesthetic education and practices in schools, museums, and community art centers.
AED 494H	Schools and Museums 3 Credits	Museum education: issues, theories of aesthetic education and practices in schools, museums, and community art centers.
AED 495.00	Internship in Art Experiences 15 Credits	Comprehensive instruction in craft, health, cultural, museum, studio, gallery or social agency. Students supervised by University personnel and arts personnel.
AED 495A	Art Education Student Teaching Practicum 7 Credits	A ED 495A A ED 495A Art Education Student Teaching Practicum (7) The Pittsburgh-based elementary or middle-level field experience fulfills the student teaching requirement for Pennsylvania certification to teach art in elem
AED 495B	Art Education Student Teaching Practicum 8 Credits	A ED 495B A ED 495B Art Education Student Teaching Practicum (8) The Pittsburgh-based middle-level or secondary field experience fulfills the student teaching requirement for Pennsylvania certification to teach art in elem
AED 495C	Art Education Student Teaching Practicum 7 Credits	A ED 495C A ED 495C Art Education Student Teaching Practicum (7) The Centre Region-based elementary or middle-level field experience fulfills the student teaching requirement for Pennsylvania certification to teach art in
AED 495D	Art Education Student Teaching Practicum 8 Credits	A ED 495D A ED 495D Art Education Student Teaching Practicum (8) The Centre Region-based middle-level or secondary field experience fulfills the student teaching requirement for Pennsylvania certification to teach art in
AED 495E	Internship in Museums and Cultural Institutions 15 Credits	S ED 495E A ED 495E Internship in Museums and Cultural Institutions (15) The internship at a museum or other cultural institution completes the requirements for the Museums and Cultural Institutions option for the BS in Art
AED 496.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AED 497.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
AED 499.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARTH 1S	First-Year Seminar in Art History 3 Credits	An introduction to the field of art history, through an examination of a selected issue in a seminar setting. ARTH 1S First-Year Seminar (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This First-Year S
ARTH 100	Introduction to Art 3 Credits	An approach to the understanding of art through a critical analysis of selected works of architecture, painting, and sculpture. ARTH 100 Introduction to Art (3) (GA;IL)(BA). This course meets the Bachelor of Arts degree require
ARTH 101N	Introduction to Global Art History 3 Credits	This course introduces students to the history of art as a global phenomenon, interconnected by millennia of cross-cultural encounters. Rather than seeking to provide an exhaustive history of world art and architecture, this c

ARTH 105N	Pictures and Power 3 Credits	ARTH 105N Pictures and Power (3) (GA) (GS) (BA) In an era in which information is increasingly visual, and in an age in which our environment is ever more packed with imagery, students need powerful tools with which to int
ARTH 107N	Rocks, Minerals, and the History of Art 3 Credits	This online course investigates select rocks and minerals used in the production of art between the Prehistoric Era and the Early Modern period. Topics covered include chemical and physical properties, occurrence in nature,
ARTH 111	Ancient to Medieval Art 3 Credits	This course is an introduction to Western art before the Renaissance, to CE 1423. The topics covered in this course include prehistoric art in Europe; art of the Near East and Egypt; Aegean art; Greek and Roman art; Early Ch
ARTH 111U	Ancient to Medieval Art 3 Credits	Survey of Ancient Egyptian, Greek, Roman, Byzantine, Early Medieval, Romanesque, and Gothic art, with an emphasis on sculpture and painting.
ARTH 112	Renaissance to Modern Art 3 Credits	This course is a broad survey of the most important artists and developments in Western art from the early 14th century to the present, including architecture, sculpture and painting. In addition to being a survey of major mor
ARTH 112U	Renaissance to Modern Art 3 Credits	Survey of Renaissance, Baroque, Rococo, Romantic, Modern, and Contemporary art, with an emphasis on painting, sculpture, and graphic arts.
ARTH 115N	Arts of Love 3 Credits	This course will familiarize students with expressions of love in Western arts and literature. Students will analyze the artistic, philosophical and literary representations of courtship, friendship, homoeroticism, sexuality, marriag
ARTH 120	Asian Art and Architecture 3 Credits	This course surveys Asian art and architecture from the earliest civilizations to the present day, focusing more on the arts and monuments from China, Japan and India but also introducing those from Korea, Southeast and Ce
ARTH 125	Islamic Architecture and Art 3 Credits	Survey of the art and architecture of Islamic lands from the late seventh century until the eighteenth century. ARTH 125 Islamic Architecture and Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements.
ARTH 130	Art of Africa, Oceania, and the Americas 3 Credits	A selective overview of the indigenous art of Africa, Oceania and the Americas. ARTH 130 African, Oceanic, and Native American Art (3) (GA;US;IL)(BA) This course meets the Bachelor of Arts degree requirements. ARTH 130

ARTH 140	Introduction to the Art and Architecture of the Mayas, Aztecs, and Incas 3 Credits	This course examines the artistic and architectural production of Pre-Columbian Mesoamerica and the Andes. ARTH 140 Introduction to the Art and Architecture of the Mayas, Aztecs, and Incas (3)(BA) This course meets the
ARTH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARTH 199	Foreign Study--Art History 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARTH 201	Ancient to Medieval Architecture 3 Credits	A survey of Prehistoric, Ancient Near Eastern Egyptian, Greek, Roman, Early Christian, Byzantine, Early Medieval, Romanesque, and Gothic architecture. ARTH 201 Ancient to Medieval Architecture (3) (GA;IL)(BA) This course
ARTH 202N	Renaissance to Modern Architecture 3 Credits	This course is an introduction to the history of architecture, primarily in Europe and North America, but also in Asia and South America, from approximately 1400 to the present. Selected architects, structural ideas, buildings,
ARTH 204	The Art of Marvel: Italy and Spain 1600 - 1750 3 Credits	This class is intended to provide a general introduction to the art and architecture of Italy and Spain from roughly 1590-1750. Discussion will concentrate on what constitutes the baroque and its interpretation in each geograp
ARTH 207	The Eternal City: Rome from Antiquity to the Present 3 Credits	This class provides an introduction to the architecture and urbanism of the city of Rome from its founding to the present. The class will examine the ways in which the city came into being and was shaped over time, thereby
ARTH 215	Architecture and Art of South and Southeast Asia 3 Credits	Survey of the architecture/art of South/Southeast Asia (emphasis on India) from the Bronze Age to a globalizing present. ARTH 215 / ASIA 215 Architecture and Art of South and Southeast Asia (3) (GA;IL)(BA) This course mee
ARTH 220	Chinese Art 3 Credits	A general survey of the great periods of Chinese art from the Shang dynasty until the modern period. ARTH 220 Chinese Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements. ARTH 220 provides an
ARTH 222N	Intersections between Art History and the History of Psychology 3 Credits	ARTH 222Q: Intersections between Art History and Psychology Why is there a cultural association between mental illness and artistic creation? What is the history of this association? Is there a psychological foundation for it
ARTH 222Q	Intersections between Art History and the History of Psychology 3 Credits	ART H 222Q: Intersections between Art History and Psychology Why is there a cultural association between mental illness and artistic creation? What is the history of this association? Is there a psychological foundation for i
ARTH 224N	Authors and Artists 3 Credits	This course explores the many links between modern art and literature, including fiction about artists, illustrations of fiction and poetry, efforts to write in the styles associated with modern art, and practices of ekphrasis (the
ARTH 225N	Sexuality and Modern Visual Culture 3 Credits	ENGL 225N / ARTH 225N / WMNST 225N Sexuality and Modern Visual Culture (3) (GA;GH) An examination of the visual expression of gender and sexual identities in English-speaking cultures since the late nineteenth centur
ARTH 226	The Comic Book: A History of Sequential Art 3 Credits	An overview and examination of the history of sequential art with a focus on comic books and graphic novels. ART H 226 The Comic Book: A History of Sequential Art (3) (GA)(BA) This course meets the Bachelor of Arts deg
ARTH 250	A Chronological Survey of Photography 3 Credits	A survey of photography's place and influence in a social, cultural, and historical context. ART H 250 A Chronological Survey of Photography (3) This course explores the role played by photography over time in providing un
ARTH 260	Museum Marketing & Communications 1-3 Credits	This course provides a well-rounded introduction to strategic communications, marketing, and publicity in arts institutions. In this course, students will gain an understanding of marketing and communications theory while al
ARTH 270	Artificial Intelligence and Art History 3 Credits	This course provides students with an introduction to the history of artistic and art historical applications of Artificial Intelligence (AI) from the earliest examples of "creative" automata to contemporary Machine Learning (ML)

ARTH 280	The Secret Lives of Things: Design and Decorative Arts since the 18th Century 3 Credits	This course will study the meanings of ordinary and extraordinary objects of daily life. Ranging from pre-Revolutionary France to the global present, we will look at furniture, interiors, graphics, appliances, ceramics, and other
ARTH 292N	Witches and Witchcraft from the Middle Ages to the Present 3 Credits	This course will explore the social and cultural history of witches and witchcraft from the late Middle ages in Europe and the U.S. to the present. The very nature and broad scope of the topic lends itself to an interdisciplinary
ARTH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARTH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARTH 297N	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
ARTH 299	Foreign Study--Art History 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARTH 301	Egyptian and Mesopotamian Art 3 Credits	ART H 301 Egyptian and Mesopotamian Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements. Art history 301 provides an introduction to the arts of the Ancient Near East including those of Egypt ar
ARTH 302	Early Medieval Art 3 Credits	A survey of the art of Western Europe from the Early Christian era through the Ottonian Empire, c.300-1050 CE. ART H 302 Illuminating the Dark Ages (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requiremen
ARTH 303	Italian Renaissance Art 3 Credits	The major arts in Italy from the thirteenth century CE through the Renaissance; emphasis on sculpture and painting. ARTH 303 Italian Renaissance Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requiremen
ARTH 305	Romanticism and Revolution 3 Credits	A survey of painting and sculpture in Europe 1780-1860, from the origins of Neoclassicism through Romanticism and Realism. ARTH 305 European Art from 1780-1860 (3) (GA;IL)(BA) This course meets the Bachelor of Arts d
ARTH 306	Color across Cultures: A Global History of Pigments, Dyes, Metals and Other Coloran 3 Credits	Color across Cultures offers an introduction to color from the perspective of global art history. Through documents, art works and specimens of historic colorants, we will explore geological and mineral sources of mined pigm
ARTH 307N	American Art and Society 3 Credits	History of art in the English colonies and the United States from the seventeenth century to the present. AMST 307N / ARTH 307N American Art (3) (GA;US)(GH)(BA) This course meets the Bachelor of Arts degree requiremen
ARTH 308N	American Architecture 3 Credits	History of the architecture of the United States, as well as its Native American and colonial antecedents. AMST / ARTH 308N American Architecture (3) (GA;GH;US)(BA) This course meets the Bachelor of Arts degree requirem
ARTH 311	Greek and Roman Art 3 Credits	ART H 311 Greek and Roman Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements. Art History 311 provides a survey of Greek and Roman art. Included are the Orientalizing, Archaic, Classical and H

ARTH 312	Romanesque and Gothic Art 3 Credits	Survey of the architecture, sculpture, and painting of the Christian church in western Europe from 1000 to 1500. ARTH 312 Romanesque and Gothic Art (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requireme
ARTH 313	Northern Renaissance Art 3 Credits	Art in northern Europe in the fifteenth and sixteenth centuries, emphasizing painters such as Van Eyck, Durer, and Bruegel. ART H 313ART H 313 Northern Renaissance Art (3) (GA;IL)(BA) This course meets the Bachelor of A
ARTH 314	Art in the Age of Rembrandt 3 Credits	Dutch and Flemish painting in the seventeenth century. ART H 314ART H 314 Art in the Age of Rembrandt (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements. Art History 314 explores the relationship
ARTH 325	Impressionism to Surrealism 3 Credits	A survey of European painting, sculpture, and photography from ca. 1850 to ca. 1940. ARTH 325 Impressionism to Surrealism (3) (GA;IL)(BA) This course meets the Bachelor of Arts degree requirements. Art History 325 is a s
ARTH 326	Art Since 1940 3 Credits	An international survey of painting, sculpture, photography and other media since 1940. ART H 326 Art Since 1940 (3) (GA;US;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course offers a survey
ARTH 335	African Art 3 Credits	Introduction to the visual arts of Africa, including contemporary African art and the influence of African art outside Africa. ARTH 335 / AFR 335 African Art (3)(GA;IL)(BA) This course meets the Bachelor of Arts degree requirem
ARTH 350W	Undergraduate Seminar in the History of Art 3 Credits	An introduction to original research, methodology, analysis, and writing on a scholarly level.
ARTH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARTH 399	Foreign Study--Art History 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ARTH 401	Greek Art and Architecture 3-9 Credits/Maximum of 9	Developments in Greek art and architecture, tenth century B.C. to first century B.C.; emphasis on the importance of Greek sanctuaries.
ARTH 402	The Illuminated Manuscript 3 Credits	Specific stylistic periods in manuscript painting from A.D. 500-1500 in Western Europe and Byzantium.
ARTH 405	Pioneers of Modern Architecture 3 Credits/Maximum of 6	Selected period or theme in the development of modern architecture during the nineteenth and/or early twentieth centuries.
ARTH 409	Museum Studies 3 Credits	An introduction to the professional activities that occur in art museums. ART 409 / ARTH 409 Museum Studies (3)(BA) This course meets the Bachelor of Arts degree requirements. This course introduces students to the broa
ARTH 410	Taste and Criticism in Art 3 Credits	History and literature of art criticism demonstrating the varied philosophic, cultural, iconographic, technical, and visual approaches.
ARTH 411	Roman Art 3 Credits	Roman sculpture and painting from Augustus to Constantine.
ARTH 412	The Gothic Cathedral 3 Credits	Specific aspects of Romanesque and Gothic church architecture of western Europe, especially France and England, between 1000-1500.
ARTH 415	The Skyscraper 3 Credits	Origin and evolution of the skyscraper as seen against the background of cultural conditions and technological factors.
ARTH 416	Studies in American Art 3 Credits/Maximum of 6	Selected time periods and/or issues in the art of the United States.
ARTH 420	Russian Architecture 3 Credits	Russian architecture from the first Orthodox churches of the late tenth century to the end of the Soviet Union.
ARTH 422	Studies in Medieval Sculpture 3 Credits/Maximum of 9	Specific studies of western European sculpture, 300-1500, with attention to sources, styles, type, and iconography.
ARTH 423	Studies in Italian Renaissance Art 3 Credits/Maximum of 9	Specific studies of Italian Renaissance art, including the work of artists such as Leonardo da Vinci, Michaelangelo, and Raphael.
ARTH 426	Iconoclasm: Powerful Images and their Destruction 3 Credits	Iconoclasm: exploring the political, religious, and social motivations behind the destruction of powerful imagery throughout history. ART H 426 Iconoclasm: Powerful Images and their Destruction (3) (US;IL) (BA) This course m
ARTH 427	Topics in Global Artistic Communication 3 Credits/Maximum of 6	Explores a specific time period in art history cross-culturally in Europe, Asia, Africa, and/or the Americas. ART H 427 Topics in Global Artistic Communication (3 per semester/maximum of 6) (IL) This course explores specific
ARTH 429	Studies in Baroque Art 3 Credits	Selected topics in the painting, sculpture, and architecture of seventeenth-century Italy, France, Flanders, Holland, and Spain. ART H 429 Studies in Baroque Art (3) (IL)This course addresses aspects of European art of the s
ARTH 430	British Art in Context 3 Credits	This course examines the history of art in Britain, with particular attention to the 18th and 19th centuries (1707 to 1914). Works of visual art are considered in close relation to history, especially the history of the British imperia
ARTH 435	Studies in Modern Art 3 Credits/Maximum of 6	Lectures focusing on a selected movement of nineteenth- or twentieth-century art.
ARTH 440	Monuments of Asia 3-9 Credits/Maximum of 9	An exploration of major Asian sites and monuments through a focus on their historical and cultural significance. ART H (ASIA) 440 Monuments of Asia(IL)(BA) This course meets the Bachelor of Arts degree requirements. In th
ARTH 442	Late Antique and Early Christian Art 3 Credits	Survey of the architecture and visual culture of Christian society from the beginning of the mid-sixth century.
ARTH 445	Oceanic Art 3 Credits	Survey of the arts of Oceania (Polynesia, Micronesia, Melanesia), including masks, sculpture, textiles, architecture and other art forms. ART H 445 Oceanic Art (3) (IL)(BA) This course meets the Bachelor of Arts degree require
ARTH 446	Topics in African Art 3 Credits/Maximum of 9	Topics vary from "Arts of Eastern and Southern Africa" to "Art of West Africa."
ARTH 447	Topics in the Art of the African Diaspora 3 Credits/Maximum of 6	Selected topics in arts of the African Diaspora (South America, Caribbean, USA) including masquerades, textiles, architecture and other art forms.
ARTH 450	The History of Photography 3 Credits	The history of photography from 1839, with particular emphasis on the relationship with the plastic arts.
ARTH 452	Byzantine Art 3 Credits	Monumental and minor arts of Byzantium and related areas from the reign of Justinian to the Turkish conquest of Constantinople.
ARTH 456	Renaissance and Baroque Palaces 3 Credits	This course examines palace architecture and decoration in Italy, France, England, and Germany from 1450-1700.
ARTH 458	The City 1600-1800 3 Credits	This course examines the architecture and urbanism of cities from 1600-1800. This course will examine what transformed the cities into centers of power, culture, and learning. We will look at new building types, the creation
ARTH 460	Art and Empire: Aztec, Inca and Spanish 3 Credits	This course is a comparative study of the artistic production used in Aztec, Inca and Spanish empires. ART H 460 Art and Empire: Aztec, Inca and Spanish (3) (IL)(BA) This course meets the Bachelor of Arts degree requireme
ARTH 462	Studies in Latin American Art 3 Credits/Maximum of 6	Specific studies of the visual and material culture created in Latin America from the colonial through the modern era. ART H 462 Studies in Latin American Art (3 per semester/maximum of 6) (IL)(BA) This course meets the Ba
ARTH 470	Contemporary Art 3 Credits/Maximum of 9	A focused investigation of a special topic relating to art made after 1940.
ARTH 475	Contemporary Women Artists 3 Credits	An interdisciplinary course that investigates women artists who were integral to the production of contemporary art primarily in the Americas, Europe, and Asia.
ARTH 476	History and Theory of Digital Art 3 Credits	History and theories of contemporary digital art emphasizing humanistic approaches to technology. ART 476 / ARTH 476 History and Theory of Digital Art (3)(BA) This course meets the Bachelor of Arts degree requirements. A
ARTH 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written or oral critique of activity required.

ARTH 495H	Internship 1-18 Credits/Maximum of 999	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written or oral critique of activity required.
ARTH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARTH 496H	Independent Studies - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ARTH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ARTH 499	Foreign Study--Art History 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
A-I 100	Artificial Intelligence: Automated Thinking to Augment Human Intellect 3 Credits	This course introduces students to key artificial intelligence (AI) capabilities and their broad real-world applications. It first introduces students to the interdisciplinary intellectual underpinnings of artificial intelligence and the h
A-I 341W	Responsible Artificial Intelligence 3 Credits	This course aims to equip students with the necessary conceptual frameworks, best practices, and technical tools for addressing challenges of designing and deploying systems that maximize the benefits of AI while minimi
A-I 370	Problem Formulation and Automated Problem Solving 3 Credits	This course introduces students to methods for automated problem solving requiring intelligence by formulating and solving problems as search, optimization, or constraint satisfaction problems. Topics of the course includ
A-I 375	Knowledge Representation and Inference 3 Credits	This course is designed to introduce students to the principles and practice of representing and reasoning with knowledge for the design of AI systems. The course will cover logical, probabilistic, and decision-theoretic know
A-I 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis
A-I 495	Internship 1-18 Credits/Maximum of 18	Supervised on or off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AIMA 430	AI Capstone I: Project Design 3 Credits	Artificial Intelligence (AI) is an interdisciplinary field concerned with the study of computational models of intelligence; design, implementation and application of intelligent systems/agents; exploring the design space of intelli
AIMA 440	AI Capstone II: Project Implementation 3 Credits	Artificial Intelligence (AI) is an interdisciplinary field concerned with the study of computational models of intelligence; design, implementation and application of intelligent systems/agents; exploring the design space of intelli
ARTSA 301	Introduction to Arts Administration 3 Credits	This course provides students with a survey of the major concepts and practices of arts administration.
ARTSA 401	Arts Event Planning and Project Management 3 Credits	Planning and managing an event for an arts organization.
ARTSA 402W	Strategic Management and Planning for the Arts 3 Credits	Study of strategic planning for commercial and non-profit arts organizations.
ARTSA 403	Fundraising and Grant Writing 3 Credits	This course explores strategies to identify and secure financial support for arts organizations and not-for-profit institutions. ARTSA 403 Fundraising and Grant Writing (3) ARTSA 403, Fundraising and Grant Writing, is an uppe
ARTSA 404	Event Planning Practicum 3 Credits	Students individually plan their own arts event in a workshop setting that guides them through organization and implementation. ARTSA 404, Event Planning Practicum, is an upper level requirement for the Bachelor of Arts d
ARTSA 495	**SPECIAL TOPICS** 3 Credits	No description
ARTSA 495A	Arts Administration Off Campus Internship**SPECIAL TOPICS** 3 Credits/Maximum of 3	Arts Administration Off Campus Internship (3) A professional internship experience with an established arts agency or organization outside of the university.
ARTSA 495B	On Campus Internship in Arts Administration 3 Credits/Maximum of 3	On Campus Internship in Arts Administration (3) An internship with an on-campus arts organization or program.
ARTSA 496	Independent Study 3-9 Credits/Maximum of 9	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
AA 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AA 100	Introduction to International Arts 3 Credits	The arts of the world can be simultaneously universal and unique. By conveying qualities of the human condition (mortality, love, lust, virtues, vices, etc.) the arts can be universal. However, the arts communicating these qual
AA 103	Introduction to Interior Design 3 Credits	We spend most of our time in interior space where we live, work, learn, and play, and the interior design of these spaces impacts human health and wellbeing. Individual interior spaces and the sequences of interior spaces e
AA 106	Interdisciplinary Digital Studio (IDS) Seminar II 3 Credits	This course will consist of 5 modules that will introduce students to emerging technologies that are applicalbe to interdisciplinary electronic design study. A&A 106 Interdisciplinary Digital Studio (IDS) Seminar II (3) This secor
AA 113N	Sustainable Arts and Design 3 Credits	Climate change threatens human health and economic wellbeing and impacts our interactions with the built and natural environments. The adverse impacts of climate change are disproportionately borne by vulnerable comm
AA 120N	Introduction to Art Therapy 3 Credits	Introduction to Art Therapy is designed to introduce undergraduates to the philosophical, pragmatic and historical bases of the human service field of art therapy, with emphasis on current applications in the field of art therap
AA 121	Design Thinking and Creativity 3 Credits	This course is an introductory, general education level course based on the premise that design is a fundamental human activity that everyone engages in one way or another. Design encompasses both the ability to imagine
AA 122	Introduction to Graphic Storytelling 3 Credits	Introduction to Graphic Storytelling is a studio exploring the visual language of comics and graphic novels. Assignments will include writing and drawing exercises, and weekly comics projects. Subjects of study and discussi
AA 130N	Creative Arts Therapy Applications 3 Credits	Creative Arts Therapies are intermodal professions that combine the visual arts, movement, drama, music, writing and other creative processes to foster deep personal growth and community development. While AA 120N pr

AA 160N	The Virtual Transformational Leadership Development Experience 3 Credits	The Virtual Transformational Leadership Development (VTLD) Experience is designed to help develop the next generation of leaders to serve as agents of change in pursuit of a more civil, equitable, and just workplace, societ
AA 193N	The Craft of Comics 3 Credits	This course combines the literary analysis of comics and graphic novels with the creative practice of making comics. Students will learn through an integrated and ongoing process of interpreting select comics texts and also
AA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AA 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AA 230N	Arts & Wellness in Communities 3 Credits	Arts and Wellness in Communities is designed to introduce undergraduates to ways they can use the arts for wellness for themselves and in their communities. This course is centered around art-making for personal well-bei
AA 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internship. Written and oral critique of activity required.
AA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
AA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AA 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
AA 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AA 322	Arts Marketing 3 Credits	Topics include: arts markets, consumptions models, targeted development of aesthetic products, analysis of websites and other marketing materials that communicate artistic value. A&A 322 Arts Marketing (3)(BA) This cour
AA 323	Arts Enterprise Development 3 Credits	Course outlines the cultural and economic environment of the arts in the United States. Topics include: feasibility study and start-up of for- and non-profit arts ventures, the role of geography, demand and infrastructure consi
AA 324	Arts Entrepreneurship and the Law 1 Credits/Maximum of 1	Course surveys general legal considerations in the arts and pertinent issues for monetizing creative work. Course surveys general legal considerations in the arts and pertinent issues for monetizing creative work. Class meeti
AA 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AA 401	International Arts Minor Final Project 1-3 Credits	The final project required for the International Arts Minor. A&A 401A&A 401 International Arts Minor Final Project (1-3) The requirements for the International Arts Minor specify that the course applied toward the minor reflect
AA 424	Arts Entrepreneurship Capstone Research Project 3 Credits	Mentored research on an arts venture idea equips students for immediate, informed, individually specific action upon completion of the program. A&A 424 Arts Entrepreneurship Capstone Research Project (3) This course fu
AA 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AA 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
AA 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
AA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
AA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
AA 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
AAS 100N	Introduction to Asian American Studies 3 Credits	This course offers an introduction to the history, literature, culture, and social conditions of Asian Americans. It begins with Chinese immigration to the United States in the nineteenth century and proceeds to cover the histori
ASIA 3	Introduction to the Religions of the East 3 Credits	Religious experience, thought, patterns of worship, morals, and institutions in relation to culture in Eastern religions. RLST 3 / ASIA 3 Introduction to the Religions of the East (3) (GH;IL)(BA) This course meets the Bachelor of
ASIA 4	Introduction to Asian Literatures 3 Credits	Satisfies General Education (GH), International Cultures (IL), Other Cultures (BA) requirements. This course is designed to act as a gateway to Asian literatures and cultures - through English translation - of selected fictional a

ASIA 83S	Asian Studies First Year Seminar 3 Credits	The meaning and advantages of a Liberal Arts education in context of a specific discipline. ASIA 083S Asian Studies First Year Seminar (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course
ASIA 100	What is Asia? 3 Credits	What are the factors that bind and define a region? What makes a geographical area, a set of cultures, or a certain group of people into a single entity? Who decides? Asian history provides a view of how a region is formed a
ASIA 101N	Sports in Asia 3 Credits	The history and contemporary practice of athletics in Asia shows that sports are much more than just games. Taking a multi-disciplinary approach to the study of sports in Asia, this course will examine what meanings have b
ASIA 102	Asian Popular Culture 3 Credits	An exploration of popular culture in Asia. ASIA 102 Asian Popular Culture (3) (GH;IL)(BA) Asian popular culture encompasses a broad array of cultural practices and forms that shed light on the politics and societies of Asia. Th
ASIA 103	Introduction to Hinduism 3 Credits	Historical overview of the development of ideas that forms the basis of the south Asian religious culture. ASIA 103 / RLST 103 Introduction to Hinduism (3) (GH;IL)(BA). This course meets the Bachelor of Arts degree requireme
ASIA 104	Introduction to Buddhism 3 Credits	A general survey of the basic doctrine, practice, and historical development of Hinayana and Mahayana Buddhism. RLST 104 / ASIA 104 Introduction to Buddhism (3) (GH;IL)(BA) This course meets the Bachelor of Arts degre
ASIA 105	War and Memory in Asia: Twentieth Century and beyond 3 Credits	The history and memory of the Hiroshima and Nagasaki, Nanking massacre, the Cambodian genocide and other forms of mass violence are often taught separately in different disciplines within Asian Studies and beyond. Th
ASIA 106N	Asian Traditions of Health, Medicine, and the Body 3 Credits	This course provides an introduction to historical and contemporary traditions of health, medicine, and the body from various parts of Asia. Potentially including such diverse topics as Ayurveda, yoga, acupuncture, taiji, qigo
ASIA 107N	Bollywood: Seeing South Asia Through Cinema 3 Credits	This course is an introductory survey of Hindi cinema that examines movies of post-independent India. It aims to provide students insight into the historical contexts in which Hindi cinema developed, exposing them to a hand
ASIA 109H	What is The Self? 3 Credits	What is the self? Are you your body? Your identities? Your consciousness? This course explores diverse views of "the self" from a variety of different global religious and philosophical perspectives. Topics may include Asian t

ASIA 120Y	South Asia: A Literary History 3 Credits	The course traces the cultural history of South Asia by studying its literary tradition from ancient to modern times. ASIA 120Y South Asia: A Literary History (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requir
ASIA 172	Introduction to Japanese Civilization 3 Credits	This course surveys the development of civilization in Japan from ancient times to the present. Among the key goals of this course is to discuss what is distinctive about "Japanese civilization." As a survey of Japan it include
ASIA 174	East Asia to 1800 3 Credits	This course provides students with an overview of the most important historical developments and external relations of China, Japan and Korea from ancient times to the end of the eighteenth century. As a comparative surve
ASIA 175	East Asia since 1800 3 Credits	This course is a comparative survey of the internal developments and external relations of China, Japan and Korea since the early 1800s. Topics include interaction with the West, internal rebellions and reforms, the importanc
ASIA 176	Survey of Indian History 3 Credits	Survey of cultural, institutional, and political history from ancient times to the present. HIST 176 Survey of Indian History (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course surveys the hi
ASIA 177	Rise of Modern Southeast Asia 3 Credits	This course looks at Southeast Asia from the rise of early empires to the present. Beginning with the great empires of Southeast Asia this course surveys the rise of Southeast Asian politics, culture and society before examini
ASIA 181	Introduction to the Religions of China and Japan 3 Credits	A survey of the history, philosophy, and cultural impact of the major Far Eastern religions: Confucianism, Taoism, Buddhism, and Shinto. ASIA 181 / RLST 181 Introduction to the Religions of China and Japan (3)(GH;IL)(BA) Th
ASIA 182	Asian Trade: Economy, Industrialization and Capitalism in Asia 3 Credits	An historical overview of economy, industrialization, globalization and capitalism in Asia from the 16th century to present. ASIA (HIST) 182 Asian Trade: Economy, Industrialization and Capitalism in Asia (3) (GH;IL)(BA) This co
ASIA 183	Gender, Family, and Society in East Asia 3 Credits	This course tracks the changes in East Asian gender roles, relationships, and family life from 1800 to the present, placing private life at the center of the history of China, Japan, and Korea. Among the topics covered are the e
ASIA 186	The Silk Roads 3 Credits	Taking cross-cultural communication and connectivity as its central themes, this course explores the central role that the silk roads and Indian Ocean maritime routes have played throughout Eurasian history. The course prov
ASIA 187	Global Taiwan 3 Credits/Maximum of 3	This course examines the historical, cultural, and ethnic dimensions of Taiwan over several centuries to the present day. Taiwan's rich history and important economic role in contemporary East Asia clashes with its exclusion
ASIA 188	Tibet: People, Places and Spaces 3 Credits	Few places generate as much curiosity, interest, or controversy, in the Western mind than Tibet. This course examines Tibet from a variety of perspectives from Tibet's political unification under a single ruler in the seventh ce
ASIA 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ASIA 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

ASIA 200	What Are Asian Languages? 3 Credits	Introduction to the interrelated notions of language, interaction, and culture centering on regions and languages covered in Asian Studies. The purpose of the course is to introduce the interrelated concepts of language, intera
ASIA 215	Architecture and Art of South and Southeast Asia 3 Credits	Survey of the architecture/art of South/Southeast Asia (emphasis on India) from the Bronze Age to a globalizing present. ARTH 215 / ASIA 215 Architecture and Art of South and Southeast Asia (3) (GA;IL)(BA) This course mee
ASIA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ASIA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ASIA 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ASIA 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ASIA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ASIA 400	International Culture in East Asia 3 Credits	Study of the role of culture in East Asian regional and East-West international relations. ASIA 400 (PL SC 486/HIST 489) International Culture in East Asia (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements
ASIA 401	Technology & Society in Modern Asia 3 Credits	Role of technology in modernization, national identity, and foreign relations of one or more Asian countries from 19th century to present day. ASIA 401 Technology & Society in Modern Asia (3) (IL)(BA) This course meets the B
ASIA 402	Language, Culture and Cognition in East Asian Context 3 Credits	This course is a linguistic introduction to the relationship between language, culture, and cognition with a focus on Chinese, Japanese, and Korean. In this course, we study the cognitive linguistic view that human cognition is
ASIA 403	Food Cultures of Asia 3 Credits	Food Cultures of Asia explores cuisine as a window to the region's geography, history, and culture. Tracing the specific histories of certain Asian dishes, spices, and grains, we will not only learn about Asian cultures, but also
ASIA 404Y	Topics in Asian Literature 3 Credits	Selected works from the major poetry, fiction, and drama of such countries as India, China, Japan. CMLIT 404 / ASIA 404 Topics in Asian Literature (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. Th
ASIA 405	Seminar in Asian Studies 3-6 Credits/Maximum of 6	Advanced seminar in Asian Studies ASIA 405 Seminar in Asian Studies (3-6 per semester/maximum of 6)(BA) This course meets the Bachelor of Arts degree requirements. This seminar focuses on advanced topics in the field
ASIA 405Y	Seminar in Asian Studies 3 Credits/Maximum of 6	Seminar in Asian Studies (BA;IL) This course meets the Bachelor of Arts degree requirements. This seminar focuses on advanced topics in the field of Asian Studies and is intended to function as an upper-level, research-inte
ASIA 406	Issues and Practices in Teaching Asian Languages 3 Credits	This course aims to provide basic pedagogical training for teaching Asian languages as second/foreign language. It involves critical reading and discussion of major pedagogical principles and issues in teaching Asian langua
ASIA 414	Chinese Language, Culture and Society 3 Credits/Maximum of 3	The study of Chinese language and culture and a perspective on the way of life in contemporary Chinese society. Through this course, the students are introduced to a cognitive approach to the study of Chinese language an
ASIA 415	China Beyond China 3 Credits	Study of modern and contemporary Chinese culture in its diversity and its intercultural contexts. CHNS 415 China Beyond China (3) (IL) In order to begin to understand Chinese culture, we cannot treat it as a monolithic, unifi
ASIA 416	Gender and Sexuality in China 3 Credits	Study of gender roles and the imaginary of sexuality in the literary, filmic, and artistic production of modern China. CHNS 416 Gender and Sexuality in China (3) (IL) This course explores gender roles and the imaginary of sexu
ASIA 417	The Warrior, the Courtesan and the Ghost in Classical Chinese Novels 3 Credits	This course provides an introduction to major classical Chinese novels by focusing on three character types: the warrior, the courtesan, and the ghost. CHNS 423 417 The Warrior, the Courtesan and the Ghost in Classical Ch
ASIA 418	Confucius and the Great Books of China 3 Credits	This course familiarizes students with the critical texts and intellectual cultures of Warring States and early imperial China. CHNS 418 / ASIA 418 / HIST 482 Confucius and the Great Books of China (3) This course exposes st
ASIA 419	The Chinese Rhetorical Tradition 3 Credits/Maximum of 6	Study of the rhetorical works in ancient China as well as multiple facets of modern Chinese rhetoric. CHNS 419 The Chinese Rhetorical Tradition (3 per semester/maximum of 6) (IL)(BA) This course meets the Bachelor of Arts
ASIA 424	Transnational Korean Literature 3 Credits	Exploration of seminal Korean texts, including poetry, fiction, autobiography, and criticism, from the early twentieth century to the contemporary era. This course provides a comprehensive overview of modern Korean literatur
ASIA 425	Global Korean Cinema 3 Credits	Exploration of Korean cinema from the early twentieth century to the present, with an emphasis on its global/local dynamics. This course offers an introductory overview of Korean cinema. As we trace its history from the colo
ASIA 428	Asian American Literatures 3 Credits/Maximum of 6	This course explores contemporary Asian American literary production by reading a wide variety of texts focused on the possibilities and limits of space and place. Our goal in this class is two-fold: to orient ourselves in relati
ASIA 430	Japan in the World 3 Credits	Study of Japan's foreign relations and position in the international community from the early 19th century to the present. ASIA (JAPNS) 430 Japan in the World (3) (IL)(BA) This course meets the Bachelor of Arts degree require
ASIA 431	Courtly Japan 3 Credits	Focused study of aristocratic society and culture of Heian period Japan. JAPNS 431 (ASIA 431) Courtly Japan (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. The Heian period of Japanese history sa
ASIA 432	War and the Warrior in Japan 3 Credits	Survey of the role of warfare and the warrior in Japan, with attention to changing cultural settngs. Taught in English. JAPNS 432 (ASIA 432) War and the Warrior in Japan (3) (IL) This course is intended to provide an introductio
ASIA 434	Beyond Anime 3 Credits	The visual, tactile, and literary arts play key roles in how modern nation-states make sense of themselves and how they make sense of other nations. Japan provides one key example through which to observe the use and fu
ASIA 440	Monuments of Asia 3-9 Credits/Maximum of 9	An exploration of major Asian sites and monuments through a focus on their historical and cultural significance. ART H (ASIA) 440 Monuments of Asia(IL)(BA) This course meets the Bachelor of Arts degree requirements. In th
ASIA 457	Hiroshima & the Holocaust in History and Memory 3 Credits	The history and memory of the Holocaust and Hiroshima and Nagasaki are often taught separately in different disciplines. This course will examine them together through the various ways different societies remembered, und
ASIA 460Y	Research Seminar in History of Asian Religion & Medicine 3 Credits/Maximum of 9	This seminar focuses on the intersection of history, religion, and medicine in Asia. It is an upper-level, writing-intensive course that gives students the opportunity to learn research skills that are central to humanities research.
ASIA 465Y	Democratization in Asia 3 Credits	A course which identifies components of democracy, such as definitions, measures, datasets, and the democratization process. PL SC (ASIA) 465Y Democratization in Asia (3) (IL) This class is an upper-level seminar on dem
ASIA 469	Government and Politics of South Asia 3 Credits	This course offers an overview of the politics of modern South Asia with specific focus on Afghanistan, India and Pakistan. ASIA (PL SC) 469 Government and Politics of South Asia (3) (IL) This course provides an overview o
ASIA 472	Tradition, Modernity, and Cultural Change in South Asian Societies 3 Credits	India and its neighboring countries provide an interesting view of the ways cultural diversity functions in the world. The region contains one-sixth of humankind, and its people are differentiated not only by religion, language,
ASIA 474	Early Modern Japan 3 Credits	Japanese history from 1580-1880. ASIA 474 (HIST 474, JAPNS 426) Early Modern Japan (3) Japan's Tokugawa period can be difficult to grasp. It resembles a modern society in many respects but operated according to a lo
ASIA 475Y	The Making and Emergence of Modern India 3 Credits	India's transition to social, economic, and political modernity through the experience of British colonial rule and the nationalist struggle. ASIA (HIST) 475Y The Making and Emergence of Modern India (3) (IL)(BA) This course
ASIA 478	China and the World 3 Credits	This course examines China's economic reform and development and its engagement with the world since 1978. It pays close attention to the interplay of politics and economics. The course first examines the initiation and
ASIA 480	Japan in the Age of Warriors 3 Credits	An overview of Japan from the 10th to 17th century, a period of political decentralization, cultural efflorescence, and social change. ASIA (HIST) 480 Japan in the Age of Warriors (3) (IL)(BA) This course meets the Bachelor of
ASIA 481	Modern Japan Since 1800 3 Credits	The transformation of Japan from a relatively isolated, agricultural nation into a highly industrialized world power. ASIA (HIST) 481 Modern Japan Since 1800 (3) (IL)(BA) This course meets the Bachelor of Arts degree requiren
ASIA 483	Middle China 3 Credits	The social, political, and cultural issues and developments from the 8th to 16th century. ASIA (HIST) 483 Middle China (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This advanced discussion-base
ASIA 484Y	History of Chinese Thought 3 Credits	A study of the dynamic historical development of Chinese thought with its diverse expressions from antiquity to the present. ASIA (HIST) 484Y History of Chinese Thought (3) (IL)(BA) This course meets the Bachelor of Arts d
ASIA 485Y	China's Last Empire: The Qing Dynasty, 1644-1911 3 Credits	China from 1644 founding of Qing dynasty to 1911 fall; Chinese society and institutions, imperialism and China's internal diversity. ASIA (HIST) 485Y China's Last Empire: The Qing Dynasty, 1644-1911 (3) (IL)(BA) This course
ASIA 486	China in Revolution 3 Credits	China from 1900 to the present; nationalism, cultural change; development of communism. ASIA (HIST) 486 China in Revolution (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course examines

ASIA 487	Zen Buddhism 3 Credits	The development and current state of Zen Buddhist thought and practice.
ASIA 494	Research Project 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small-group basis.
ASIA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ASIA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ASIA 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ASTRO 1	Astronomical Universe 3 Credits	ASTRO 1 Astronomical Universe (3) (GN)(BA) This course meets the Bachelor of Arts degree requirements. Students who have passed ASTRO 5, ASTRO 6, ASTRO 7N or ASTRO 10 may not take this course for credit. Overvi
ASTRO 5	The Sky and Planets 3 Credits	The development of our modern understanding of the visible sky and planetary systems. Students who have passed ASTRO 1, ASTRO 7N, or ASTRO 10 may not take this course for credit. ASTRO 5 The Sky and Planets (3)
ASTRO 6	Stars, Galaxies, and the Universe 3 Credits	ASTRO 6 Astronomical Universe (3) (GN) This course meets the Bachelor of Arts degree requirements. Students who have passed ASTRO 1, ASTRO 7N, or ASTRO 10 may not take this course for credit. Overview of modern
ASTRO 7N	The Artistic Universe 3 Credits	ASTRO 7N (GA/GN) is both an introductory course in astronomy for non-science majors and a creative space for those with science backgrounds interested in visual arts; it provides students the opportunity to demonstrate
ASTRO 10	Elementary Astronomy 2 Credits	ASTRO 10 Elementary Astronomy) (GN) (BA) This course meets the Bachelor of Arts degree requirements. Students who have passed ASTRO, 1, ASTRO 5, ASTRO 6, or ASTRO 7N may not take this course for credit. Studen
ASTRO 11	Elementary Astronomy Laboratory 1 Credits	Selected experiments and explorations to illustrate major astronomical principles and techniques. Telescopic observations of planets, stars and nebulae. ASTRO 11 Elementary Astronomy Laboratory (1) (GN)(BA) This course
ASTRO 19N	Being in the Universe 3 Credits	"Being in the Universe" considers three fundamental questions of human existence from both humanistic and scientific perspectives: (1) What is the nature of our universe, and to what extent are creatures like ourselves a pre
ASTRO 20	First-Year Astronomy Seminar 2 Credits	Introduction to the study of modern astronomy through discussions, activities, and writing.
ASTRO 21	Introduction to Research in Astronomy 2 Credits	The course is designed to provide first year undergraduate students in both the ASTRO and PASTR majors with necessary tools and techniques to perform research. Students will practice a variety of techniques on authentic
ASTRO 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ASTRO 97G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
ASTRO 116	Introduction to Astronomy for Educators 3 Credits	This course is designed to engage students with the big ideas of astronomy in ways that will help them understand both the content of astronomy, as well as the practices of science as carried out by astronomers. The cours
ASTRO 120	The Big Bang Universe 3 Credits	Exploration of Cosmology, Birth, and Ultimate Fate of the Universe; Origin of Galaxies, Quasars, and Dark Matter. For non-science majors ASTRO 120 The Big Bang Universe (3) (GN)(BA) This course meets the Bachelor of Ar
ASTRO 130	Black Holes in the Universe 3 Credits	The predicted properties of black holes and the astronomical evidence for their existence are investigated in the context of modern ideas about space, time, and gravity. ASTRO 130 Black Holes in the Universe (3) (GN)(BA) T
ASTRO 140	Life in the Universe 3 Credits	The problem of the existence of life beyond Earth is investigated, drawing from recent research in astronomy and other fields. ASTRO 140 Life in the Universe (3) (GN)(BA) This course meets the Bachelor of Arts degree requir
ASTRO 141N	Film and Extraterrestrial Life: Science Fact or Fiction? 3 Credits	The search for life beyond planet Earth has been the subject of much interdisciplinary scientific search and has stimulated human imagination. Scientific discoveries of exoplanets (outside of our solar system), of extremophile
ASTRO 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ASTRO 237W	Astronomy Communications 3 Credits	The class is designed to build skills in communication modes that are used every day in academic and non-academic astronomy, industry, and related natural sciences: technical writing and reading, presenting to different au
ASTRO 291	Astronomical Methods and the Solar System 4 Credits	This course and subsequent ASTRO 292, are a two-semester sequence to overview our current knowledge of astronomy. They are designed for students with a solid grounding in math and physics who wish to obtain a more
ASTRO 292	Astronomy of the Distant Universe 4 Credits	This course is the second part of the ASTRO 291/292 sequence, a two-semester overview of our current knowledge of astronomy. They are designed for students with a solid grounding in math and physics who wish to obta
ASTRO 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ASTRO 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ASTRO 320	Observational Astronomy Laboratory 3 Credits	Basic observational astronomy techniques introduced through observational exercises, lab experiments, and lectures on relevant statistical techniques. ASTRO 320 Observational Astronomy Laboratory (3) (GN) ASTRO 320 w
ASTRO 401	Fundamentals of Planetary Science and Astronomy 4 Credits	Overview of the techniques used and results from studies of the Solar System, stars, and galaxies. ASTRO 401 Fundamentals of Planetary Science and Astronomy (3) This course will focus in core content areas in planetary
ASTRO 402W	Astronomical Telescopes, Techniques, and Data Analysis 3 Credits	Properties and use of optical telescopes, imaging and spectroscopy, multi-wavelength techniques, data analysis and statistics, practical research methods. ASTRO 402 Astronomical Telescopes, Techniques, and Data Analy
ASTRO 410	Computational Astrophysics 3 Credits	This course offers a comprehensive introduction to common computational methods for data analysis and numerical simulations in astronomy and astrophysics. It covers a wide range of topics, such as solving equations an
ASTRO 414	Stellar Structure and Evolution 3 Credits	Theory of Stellar structure and evolution including energy generation and transport and an examination of stellar models. ASTRO 414 Stellar Structure and Evolution (3) ASTRO 414 covers the theory of stellar structure and e
ASTRO 415	Introduction to Astrostatistics 3 Credits	Astronomical data are being produced at an unprecedented rate with large-scale telescopes, and thus data analytic skills to extract meaningful information from such massive astronomical datasets are important skills for ast
ASTRO 416	Data Science Applications to Astronomy 3 Credits	This course is designed to increase students' data acumen and experience in how building data science skills can benefit astronomy & astrophysics research. Students analyze data from astronomical surveys to detect and
ASTRO 420W	Planets and Planetary System Formation 3 Credits	Solar system properties, star formation, protoplanetary disks and planet formation, solar system model, extrasolar planets, and astrobiology. ASTRO 420W Planets and Planetary System Formation (3) The course explores th
ASTRO 440	Introduction to Astrophysics 3 Credits	Theoretical investigation of physical processes in astronomical objects and systems; modern physical interpretation of astronomical phenomena.
ASTRO 442	Astrophysical Fluid Dynamics 3 Credits	This course covers the equations of (magneto) hydrodynamics and applications to the modeling and interpretation of astronomical observations. Applications include star formation, stellar winds, waves in stratified and magn
ASTRO 451	Astronomical Techniques 3 Credits	Practical methods of modern observational astronomy, detectors, filters, instrumentation for both ground-based and space observations, and data analysis. ASTRO 451 Astronomical Techniques (3)ASTRO 451 will introduce

ASTRO 475W	Stars and Galaxies 3 Credits	Astronomical studies concerning the distribution and evolution of stars and gas in our and other galaxies.
ASTRO 476	The Search for Extraterrestrial Intelligence 3 Credits	The Search for Extraterrestrial Intelligence is the hunt for technosignatures: signs of non-human technology beyond Earth. The search has many forms, with its targets spanning scales from small objects in the Solar System t
ASTRO 480	Galaxies and Cosmology 3 Credits	Fundamental issues in extragalactic astronomy and modern cosmology, including the contents of the Universe, its origin and fate, and formation and evolution of cosmic structures. Topics covered include the basic propertie
ASTRO 485	Introduction to High-Energy Astronomy 3 Credits	This course explores the study of celestial phenomena such as black holes, neutron stars, white dwarfs, supernova remnants, stars, galaxies, active galactic nuclei, and galaxy clusters through X-ray, gamma-ray, and multi-m
ASTRO 494H	Honors Thesis 1-6 Credits/Maximum of 6	Investigation of an original research problem, including a literature search. Preparation of a formal thesis is optional
ASTRO 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ASTRO 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ASTRO 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ATHTR 135	Introduction to Athletic Training 3 Credits	Introduction to Athletic Training provides an overview of the field of athletic training exploring the breadth of athletic training terminology, issues, and injuries. After completing the course, the students will be able to describe t
ATHTR 202	Functional Human Anatomy 3 Credits	This course is designed to provide students a didactic and laboratory experience in functional human anatomy. Upon course completion, students should be able to comprehend and apply standard anatomical nomenclature
ATHTR 231	Foundations of Clinical Practice I 3 Credits	This course is designed to introduce students to basic skills required for the clinical practice of athletic training. The course will teach introductory content and skills related to injury and illness prevention and management. S
ATHTR 233	Acute Care and Emergency Response 3 Credits	This course prepares students pursuing the athletic training major in the Department of Kinesiology with the knowledge and skills to respond to medical emergencies. Basic skills including rescue breathing, cardiopulmonary
ATHTR 235	Foundations of Clinical Practice II 3 Credits	Athletic Training Clinical Practice II provides instruction in supervised practice of the basic skills required in the practice of athletic training. Topics include documentation of medical records, postural screening, assessment a
ATHTR 334	Examination of Injuries to the Lower Extremity, and Spine 3 Credits	This course will focus on: 1) the etiology of athletic injuries to the lower extremity and lumbosacral spine, and 2) evaluation techniques for assessing athletic injuries to the lower extremity and lumbosacral spine. The objective
ATHTR 335	Examination of Injuries to the Head, Torso, and Upper Extremity 3 Credits	This course will focus on: 1) the etiology of athletic injuries to the upper extremity, head, cervical spine, thorax, and abdomen, 2) evaluation techniques for assessing athletic injuries to the upper extremity, head, cervical spine
ATHTR 336	General Medical Principles of Clinical Practice 3 Credits	This course is designed to instruct students in general medicine content and skills related to the clinical practice of athletic training. Specific topics include pathology; pharmacology; physical examination of head, ears, eyes,
ATHTR 395A	Clinical Internship I 3 Credits/Maximum of 3	This course is designed to give students practical experiences in a variety of clinical settings in which certified athletic trainers are commonly employed. Students will participate in clinical education experiences under the su
ATHTR 434	Rehabilitation of Injuries to the Lower Extremities, and Spine 3 Credits	Rehabilitation of Injuries to the Lower Extremities is a 3-credit course offered each fall semester with an enrollment limit of 40 students. The course provides students who have been accepted into the undergraduate athletic t
ATHTR 435	Rehabilitation of Injuries to the Trunk and Upper Extremities 3 Credits	Rehabilitation of Injuries to the Trunk and Upper Extremities is a 3-credit course offered each fall semester with an enrollment limit of 40 students. The course provides students who have been accepted into the undergraduat
ATHTR 436	Physical Agents in Rehabilitation 4 Credits	The course provides students with the theoretical foundation for the application of contemporary therapeutic modalities in the treatment of musculoskeletal injuries sustained by physically-active populations. At the end of thi
ATHTR 438W	Administrative and Professional Aspects of Sports Health Care 3 Credits	Theoretical and practical aspects for management of an Athletic Training professional practice and identifying contemporary issues related to the profession. ATHTR 438W Administration and Issues in Athletic Training (3) This
ATHTR 495A	Clinical Internship II 3 Credits	This course is designed to provide students didactic and practical clinical experiences in a variety of practice settings in which certified athletic trainers are commonly employed. This is the second clinical assignment after a
ATHTR 495B	Clinical Internship III 3 Credits/Maximum of 3	This course is designed to provide students didactic and practical clinical experiences in a variety of practice settings in which certified athletic trainers are commonly employed. This is the third clinical assignment after a stu
ATHTR 495C	Clinical Internship IV 3 Credits	This course is designed to provide students didactic and practical clinical experiences in a variety of practice settings in which certified athletic trainers are commonly employed. Students will complete clinical education expe
BESC 395	Behavioral Science Internship 3-12 Credits/Maximum of 12	Internship in human service organizations providing for application of academic knowledge, reading, and discussion.
BESC 464	Feminine/Masculine 3 Credits	Study of sex role learning; investigating feminine/masculine labeling; implications for contemporary society. BE SC 464 BE SC (WMNST) 464 Feminine and Masculine (3) (US) This course provides a critical examination of the
BESC 494	Senior Thesis 3-9 Credits/Maximum of 9	Problem formulation, literature search, research design, data collection, analysis of results, and final write-up of a substantial research project.
BESC 494H	Senior Thesis 3-9 Credits/Maximum of 9	Problem formulation, literature search, research design, data collection, analysis of results, and final write-up of a substantial research project.
BBH 48	Values and Health Behavior 1.5 Credits	Examination of issues that impact the social, emotional, and physical well-being of college students through a values and decision-making process. BB H 048 Values and Health Behavior (1) (GHA) This is a 1credit course de
BBH 101	Introduction to Biobehavioral Health 3 Credits	BBH 101 is an interdisciplinary study of health that emphasizes: (1) Conceptualization of health as being influenced by a variety of factors including biology, environment, psychology, and social influences; and (2) The concep
BBH 101H	Introduction to Biobehavioral Health 3 Credits	This is an honors course, designed to provide students with the opportunity to engage with the material at a greater depth. BBH 101H is an interdisciplinary study of health that emphasizes: (1) Conceptualization of health as
BBH 102S	Values, Health, & Academic Success 3 Credits	This course will simultaneously address concepts related to Health & Wellness as well as address areas of academic transition for first year students. Essentially this course was designed to address all areas of life that stude
BBH 119	Behavior, Health, and Disease 3 Credits	This course is designed for non-BB H majors who want a fundamental understanding of disease processes, disease states, and principles of disease prevention and health promotion. This course should help students in the
BBH 123S	First-Year Seminar in Biobehavioral Health 1 Credits	This course gives an introduction to some of the major topics in the Department of Biobehavioral Health, with the aim to meet the Penn State first-year seminar goal of orienting students to the scholarly community from the
BBH 130	Strategies for Addressing the Obesity and Diabetes Epidemics 3 Credits	The purpose of this course is to broadly survey information and issues surrounding the development of and individual and community responses to the paired epidemics of obesity and diabetes. Students in the course will ex
BBH 143	Drugs, Behavior, and Health 3 Credits	The primary objective of this course is to review information related to the use of recreational and therapeutic drugs like alcohol, nicotine, opiates, caffeine, prescription drugs, etc. We will discuss the biological mechanisms
BBH 146	Introduction to Health and Human Sexuality 3 Credits	This course is designed to provide students with a solid introduction to human sexuality with an emphasis on sexual health issues. Through classroom lectures, as well as weekly smaller group meetings, students should gai
BBH 148	Coping with College: A First Year Transition Seminar 2 Credits	Exploration of effective learning strategies, university resources, academic requirements and planning, career development issues in discussion-centered environment.
BBH 150N	Safe and Sound: The Intersection of Criminal Justice and Public Health 3 Credits	This course will consider the overlapping responsibilities and epistemologies of criminal justice and public health. Both fields concerned with the promotion of population welfare, the public health and criminal justice systems
BBH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BBH 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

BBH 201N	Health and the Media 3 Credits	The main purpose of this course is to prepare students for critically interpreting representations of health in the media. The course integrates media, social and cultural studies perspectives with health communication approa
BBH 203	Neurological Bases of Human Behavior 3 Credits	An introduction to biopsychology, emphasizing the structure and function of the human brain. BB H (PSYCH 260) 203 Neurological Bases of Human Behavior (3) The nervous system provides the biological underpinning of b
BBH 204	Methods in Neuroscience Research 1 Credits	This course will consist of a variety of laboratory exercises and observations demonstrating the principles of neuroscience and different aspects of neuroscience research.
BBH 210	Biobehavioral Aspects of Genetics 3 Credits	An individual's DNA is a key biological process involved in behavior, health, and disease. The goal of this course is to introduce the foundational concepts of genetics in a Biobehavioral Health framework. This course will exa
BBH 251	Straight Talks I: Advanced Sexual Orientation/Gender Identity Peer Education 3 Credits	Exploration of social justice issues, diversity leadership, and group facilitation skills related to lesbian, gay, bisexual, transgender, and ally issues. BB H 251 Straight Talks I: Advanced Sexual Orientation/Gender Identity Peer
BBH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
BBH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BBH 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BBH 301W	Values and Ethics in Biobehavioral Health Research and Practice 3 Credits	This course examines bases for choices among values in personal and professional relations in human development processes and supporting services. This class is meant to give students both background knowledge of ar
BBH 302	Diversity and Health 3 Credits	Diversity and Health is an introduction to the interdisciplinary study of the impact of diversity on health in America. The course is designed to provide an understanding of the complex interaction between concepts of diversit
BBH 305	Introduction to Global Health Issues 3 Credits	Course will develop awareness of contemporary issues in global health. BB H 305 Introduction to Global Health Issues (3) This course is an introduction to health and related issues in the global context. It is intended to be a
BBH 310	Research Strategies for Studying Biobehavioral Health 3 Credits	BBH 310 surveys the various research methodologies used in biomedical and behavioral research, including case, epidemiological, quasi-experimental and experimental approaches. The goals of this course are: (1) to provid
BBH 310H	Research Strategies for Studying Biobehavioral Health 3 Credits	This course is designed for students working to earn honors in Biobehavioral Health to help them prepare for their thesis proposals. The course surveys the various research methodologies used in biomedical and behavioral
BBH 311	Interdisciplinary Integration in Biobehavioral Health 3 Credits	Interdisciplinary Integration in Biobehavioral Health explores the complex ways in which influences at different levels and across different domains come together to impact human health. The course will highlight the complex
BBH 315	Gender and Biobehavioral Health 3 Credits	Interdisciplinary study of gender, examining the interaction of biological, behavioral, and sociocultural factors on health differentials throughout the lifespan. BB H 315 Gender and Biobehavioral Health (3) (US) BB H 315 is an
BBH 316	Foundations and Principles of Health Promotion 3 Credits	Foundations of Health Promotion, is a 3-credit course required of all BBH majors and available to other students interested in developing a basic knowledge in health promotion interventions. The course is designed to provid
BBH 324	HealthWorks Peer Education Training 3 Credits	Designed to train new HealthWorks peer educators, this course addresses behavior theories, promotion strategies, and college health issues. BB H 324 HealthWorks Peer Education Training (3)HealthWorks is a peer educati
BBH 325	Health Promotion Services Training 3 Credits	This course will provide students with the knowledge and professional skills to deliver peer-based individual health promotion services for the college population. The course will cover a variety of health issues that are relevar
BBH 330	Clinic Intern Training 3 Credits/Maximum of 6	The University Health Services (UHS) clinic intern training program provides students with the opportunity to interact professionally with patients in the health service and to work closely with members of the clinical and nursi
BBH 368	Neuroanatomy, Behavior, and Health 3 Credits	BB H 368 Neuroanatomy, Behavior, and Health (3) BBH 368 will examine, in detail and in depth, the relationships between the multitudinous structures of the human nervous system and their roles in monitoring and controllin
BBH 370	Environmental Health and Sustainability 3 Credits	This course explores the relationship of people to their environment; notably how the natural environment influences their physical, mental, and social well-being. This course also investigates the impact of environmental issu
BBH 390A	Preparation for Global Health Field Experience 3 Credits	Designed to help students prepare for the required field experience in the Global Health minor. BB H 390A Preparation for Global Health Field Experience (3) This purpose of this course is to train students admitted to the Glo
BBH 390B	Global Health Field Experience 6 Credits	Field experience in a global health setting. BB H 390B Global Health Field Experience (6) The purpose of this course is to provide a supervised field experience in a global health setting for the students who have been admitt
BBH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BBH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BBH 402	African Health & Development 3 Credits	Course will address African health and development strategies in the context of health promotion programs. BB H 402 African Health & Development (3) (IL)This course is designed to address African health and development
BBH 407	Global Health Equity 3 Credits	Health, social disparities, and equity in the global environment. BB H 407 Global Health Equity (3) (IL) This course focuses on issues related to health, social disparities, and equity in the global environment. It examines the th
BBH 410	Developmental and Health Genetics 3 Credits	The focus of this course is on genetic influences on complex traits that are relevant to health and development. In the first part of the course, aspects of basic genetics are reviewed from the perspective of how genes work in
BBH 411W	Research and Applications in Biobehavioral Health 3 Credits	Research methods, multi-level analyses, and applications in biobehavioral health. BB H 411W Research and Applications in Biobehavioral Health (3)This is an upper-division course on research and applications in Biobehavio
BBH 416	Health Promotion II: Planning, Implementation, and Evaluation 3 Credits	Planning, implementation, and evaluation of health promotion, prevention, and intervention programs; emphasizing evaluation.
BBH 417	Advanced Applications in Health Promotion 3 Credits	Advanced learning experience in health promotion applications in which students will actively participate in planning, implementing, evaluating health programs.
BBH 420	Developing Stress Management Programs 3 Credits	Planning, developing, and implementing strategies for stress management programs for health education professionals in school, community, and corporate settings.
BBH 426	HealthWorks Peer Education Experience 1 Credits/Maximum of 5	BBH 426 is a one-credit course for students who have been trained to be peer educators in the HealthWorks program in Health Promotion and Wellness. Students will gain experience developing and implementing a range of
BBH 432	Biobehavioral Aspects of Stress 3 Credits	This course will cover the ways in which response to stress is related to human health. The course will explore the bidirectional relationship between dimensions of health and different types of stressors. Students will explore
BBH 440	Principles of Epidemiology 3 Credits	This course is designed to provide students with a basic understanding of the principles of Epidemiology and to familiarize students with the methods and applications of epidemiology to understanding the bases for heterog
BBH 446	Human Sexuality as a Health Concern 3 Credits	Examination of human sexuality as a integral part of basic health education and health care for persons of all ages.
BBH 451	Pharmacological Influences on Health 3 Credits	Biological and behavioral aspects of therapeutic and recreational drug use and misuse, and their relationships to health. BB H 451 Pharmacological Influences on Health (3) The primary theme of this course is to review and i
BBH 452	Women's Health Issues 3 Credits	The course provides the opportunity to explore priority health issues impacting the well being of women through a holistic lens including the physiologic, psychological, social, economic, political and cultural considerations. I
BBH 458	Critical Feminist Issues in Reproduction 3 Credits	This course examines women's reproductive health issues from a feminist perspective. Reproduction has always been thought of as 'women¿s work,' yet decisions about reproduction are rarely made by women. This course
BBH 468	Neuroanatomical Bases for Disorders of Behavior and Health 3 Credits	An examination of the anatomical/cellular/molecular bases for human central nervous system disorders and their impacts on victims/families/caregivers. BB H 468 Neuroanatomical Bases for Disorders of Behavior and Healt
BBH 469	Neurobiology 3 Credits	Students will acquire an understanding of basic neurobiology, the terminology of neuronal structures and functions, as well as experimental approaches designed to integrate the principles of neural cell biology, neurophysiol
BBH 470	Functional and Integrative Neuroscience 3 Credits	Neurobiological function in motivated behaviors, motor and sensory function, learning and memory, development, sexual differentiation, and pathology.
BBH 471	Clinical Research Practice 3 Credits	As new molecules progress from the laboratory to the bedside, the clinical trials enterprise needs a fresh generation of professionals with knowledge of the application of research applied to human health and disease; profes
BBH 475H	Honors Biobehavioral Analysis of Addiction 3 Credits	Addiction is a ubiquitous problem, yet understandings of addiction and opinions on the causes of addiction vary greatly. This course will apply a biobehavioral approach to examine addiction from historical, societal, behavior
BBH 490	Introduction to Internship Experience 3 Credits	Provide an integrative learning experience to develop professional skills encountered in an internship experience and future careers in biobehavioral health. BB H 490 Introduction to Internship Experience (3) This course is a
BBH 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
BBH 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Independent study related to a student's interests directed by a faculty supervisor and culminating in the production of a thesis.
BBH 495	Internship Experience in Biobehavioral Health 6-12 Credits	This course provides experiential learning in the field. Internship Supervision and support will be provided by site and university personnel.
BBH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
BBH 496H	Independent Honors Study in BB H 1-3 Credits/Maximum of 6	For non-thesis independent study/research by Schreyer Honors College scholars.
BBH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BBH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BMB 1	The Science of Sickness 3 Credits	During this course, students will learn about the scientific process and how science has contributed to the knowledge used in the medical field to diagnose, treat, and prevent disease. The course will include a broad survey c
BMB 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BMB 205	Course-Based Research Experience in Biochemistry and Molecular Biology 2 Credits	In this research course, students will participate in a course-based undergraduate research experience while learning key foundational skills in the process, comprehension, and communication of science. Students will learn
BMB 205S	Course-Based Research Experience in Biochemistry and Molecular Biology FYS 3 Credits	In this integrated research and seminar course, students will participate in a course-based undergraduate research experience while learning key foundational skills in the process, comprehension, and communication of scie

BMB 210	Phage Genomics 2 Credits	A course-based undergraduate research experience centered on analysis of bacteriophage (viruses that infect bacteria) genomics and writing a research proposal. Students will be introduced to various aspects of bacterioph
BMB 211	Elementary Biochemistry 3 Credits	An overview of biochemistry that includes properties of biomolecules, bioenergetics, metabolism, nutrition, genetics, and molecular biology. Elementary Biochemistry (3) BMB 211 is an overview of biochemistry that includes:
BMB 212	Elementary Biochemistry Laboratory 1 Credits/Maximum of 1	Selected experiments to illustrate major biochemical principles and techniques. B M B 212 B M B 212 Elementary Biochemistry Laboratory (1)B M B 212 exposes students to techniques typically used in industrial and acade
BMB 221	Applied Biochemistry 2 Credits	Application and correlation of biochemical events to physiological-nutritional processes in specialized cells, fluids, and whole animals. Students may not receive credit for both B M B 221 and 401. B M B 221 B M B 221 App
BMB 251	Molecular and Cell Biology I 3 Credits	BMB 251 Molecular and Cell Biology I (3) is an introduction to the fundamental principles of molecular and cellular biology, with a primary focus on eukaryotic cells. Topics covered will include elementary biochemistry; structu
BMB 251H	Molecular and Cell Biology I 3 Credits	Biomolecules, genetic mechanisms, organization of cells and their organelles, DNA replication, protein synthesis, membranes, the cell nucleus, energy conversion. BMB 251H Molecular and Cell Biology I (3) This course is an
BMB 252	Molecular and Cell Biology II 3 Credits	Continuation of BMB 251 / MICRB 251 ; cytoskeleton, cell growth, division, adhesion, signalling, germ cells, differentiation, immune system, nervous system, plant cells. BMB 252 / MICRB 252 Molecular and Cell Biology II (3
BMB 252H	Molecular and Cell Biology II 3 Credits	Continuation of BMB 251H ; cytoskeleton, cell growth, division, adhesion, signaling, germ cells, differentiation, immune system, nervous system, plant cells. BMB 252H Molecular and Cell Biology II (3) This course is the seco
BMB 294	Research Projects 1-6 Credits/Maximum of 8	Supervised student activities on research projects identified on an individual or small-group basis.
BMB 297	Special Topics 1-9 Credits/Maximum of 9	N/A - just activating a common course number
BMB 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BMB 398	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BMB 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BMB 400	Molecular Biology of the Gene 2-3 Credits	Biochemistry of genetic phenomena, including the structure, replication and dynamics of genes and chromosomes, their expression and regulation. BMB 400 Molecular Biology of the Gene (2-3)Molecular Biology of the Gene
BMB 401	General Biochemistry 3 Credits	Principles of the structure and function of biological molecules, including carbohydrates, lipids, membranes, proteins, and enzymes. BMB 401 is the first course of the general biochemistry series, a sequence designed to pre
BMB 401H	General Biochemistry 3 Credits	Principles of the structure and function of biological molecules, including carbohydrates, lipids, membranes, proteins, and enzymes. BMB 401H General Biochemistry (3) is the first course of the honors general biochemistry s
BMB 402	General Biochemistry 3 Credits	BMB 402 General Biochemistry (3) is a comprehensive survey of the pathways and regulation of intermediary metabolism. Most, if not all, of the students taking BMB 402 intend to pursue a Ph.D., M.D. or M.D./Ph.D. degree
BMB 402H	General Biochemistry 3 Credits	Comprehensive survey of the pathways and regulation of intermediary metabolism. BMB 402H General Biochemistry (3) provides a more intimate and interactive class environment than does BMB 402. Most, if not all, of the s
BMB 403	Biochemistry Laboratory 1 Credits	An introduction to techniques of experimental biochemistry, illustrating principles covered in B M B 402.
BMB 406	Molecular Biology 3 Credits	A discussion of current aspects of cell molecular biology with a laboratory emphasizing current biotechnology techniques.
BMB 408	Instructional Practice 1-2 Credits/Maximum of 2	Participation in the instruction of undergraduate laboratory and lecture courses, including classroom preparation; discussion of principles and objectives of each exercise. B M B 408 Instructional Practice (1-2) Students in th
BMB 411	Survey of Biochemistry and Molecular Biology Literature 1 Credits	An introduction to readings and oral presentations in biochemistry and molecular biology.
BMB 428	Physical Chemistry with Biological Applications 3 Credits	This course uses the study of physical chemistry to develop quantitative and analytical skills in biological and chemical systems. The course covers thermodynamics, solution chemistry and kinetics. The study of thermodyna
BMB 430	Developmental Biology 3 Credits	Developmental Biology introduces students to one of the most complex and exciting areas of modern biology. This course will cover basic concepts using a comparative embryology approach and focus on molecular and ge
BMB 432	Advanced Immunology: Signaling in the Immune System 3 Credits	The study of signaling pathways that regulate the immune response. BMB 432 / MICRB 432 / VBSC 432 Advanced Immunology: Signaling in the Immune System (3)This course will use the immune system as a model in whic
BMB 433	Molecular and Cellular Toxicology 3 Credits	In-depth coverage of processes by which drugs/chemicals interact with biological systems and the experimental approaches used to study these interactions.
BMB 435	Viral Pathogensis 3 Credits	Viral Pathogenesis provides students with a general knowledge of medically relevant viruses, with a specific focus on important human viral pathogens. The course is meant to help students understand how viruses cause dis
BMB 442	Laboratory in Proteins, Nucleic Acids, and Molecular Cloning 3 Credits	Laboratory in enzyme purifications and assay techniques; nucleic acid isolation and characterization, including plasmid preparation. BMB 442 / MICRB 442 Laboratory in Proteins, Nucleic Acids, and Molecular Cloning (3)The
BMB 443W	Laboratory in Protein Purification and Enzymology 3 Credits	This course is intended to provide advanced Biochemistry & Molecular Biology students with in class instruction on various laboratory methods used to explore the physical & chemical properties of proteins and other topics
BMB 445W	Laboratory in Molecular Genetics I 2 Credits	Laboratory in molecular techniques in gene analysis and microbial genetics, emphasizing in vitro methodologies. BMB 445W Laboratory in Molecular Genetics I (2) The objectives of BMB 445W are to provide advanced Bioch
BMB 448	Model Systems and Approaches in Cell Biology Inquiry 2 Credits	Advanced laboratory that uses inquiry-based approaches to analyze organelles, genetic mechanisms, and metabolic processes in eukaryotic organisms.
BMB 450	Bacterial Genetics 3 Credits	Emphasis will be on the role of mutations in the analysis of gene function; a detailed analysis of replication, transcription, translation, recombination and DNA repair. The course will also delve into the mechanisms involved in
BMB 460	Cell Growth and Differentiation 3 Credits	Mechanisms and regulation of protein trafficking, organelle biosynthesis, cell development, signaling and cell cycle control. Emphasizes experimental design and analysis. BMB 460 / MICRB 460 Cell Growth and Differentiatio
BMB 464	Molecular Medicine 3 Credits	An exploration of the impact of advances in molecular biology on understanding disease mechanisms, medical diagnosis, and therapeutics.
BMB 465	Protein Structure and Function 3 Credits	A study of the relationships among protein sequence, structure, and function. Course topics include description of protein structure, molecular viewing, forces that govern protein folding, macromolecular recognition, enzyme
BMB 474	Analytical Biochemistry 3 Credits	Physical/chemical theory and techniques that emphasize purification and characterization of biological macromolecules, including proteins, lipids and nucleic acids. B M B 474 Analytical Biochemistry (3)This three-credit cou
BMB 480	Cancer Development and Progression 3 Credits	BMB 480 / MICRB 480 Cancer Development and Progression (3) explores how cancer initiates and progresses with a focus on the interactions between tumor cells and normal tissues in the body. The goal of the course is to
BMB 482	Introduction to Computational Biology 3 Credits	Modern DNA sequencing technologies have transformed molecular biology into a data science. Sequencing machines can now read hundreds of millions of DNA sequence fragments in a few hours and at low cost. These tec
BMB 484	Functional Genomics 3 Credits	Biochemical, genetic and evolutionary approaches to comprehensive discovery of functional DNA segments in genomes, including genes and regulatory sequences. BMB 484 Functional Genomics (3) What in your genomic D
BMB 485	Human Genomics and Biomedical Informatics 3 Credits	The purpose of this course is to introduce students to the field of Human Genomics and Biomedical Informatics, in particular in the context of genetic architecture of complex human diseases and traits. The field of Human G
BMB 488	Communities of Practice in Biochemistry and Molecular Biology 2 Credits/Maximum of 16	The course combines laboratory research in a community of practice and a seminar on topics in science, ethics, and society.
BMB 490	Undergraduate Research in Cellular Dynamics I 3 Credits	In BMB 490, students will form a collaborative team to explore a research topic in cell and molecular biology. Students will learn about experimental design, laboratory techniques, data analysis, and interpretation of data. By
BMB 491	Undergraduate Research in Cellular Dynamics II: Communicating Scientific Findings 3 Credits	BMB 491 is designed to be a continuation of BMB 490. Through BMB 490/491, students will complete a fast-tracked start-to-finish research project and in doing so will learn to perform, explain, apply, and interpret good sci
BMB 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BMB 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BMB 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BIOET 100	Bioethics 3 Credits	This course surveys core topics in recent bioethics - the study of ethical problems issuing from the use and treatment of human and non-human animals in the research and practice of medicine and biotechnology. It aims to
BIOET 110N	Health, Illness, and the Human Condition 3 Credits	This survey course explores the human experience of health and illness from a combined social/behavioral science and humanities perspective. Topics may include the following: the body in art, science, and history; models
BIOET 220N	Ethics, Society, and Science Fiction 3 Credits	This inter-domain (GH and GS) course will introduce students to the application of technology-ethics and bioethics, as well as the humanities (especially health and medical humanities) and the social sciences, through the le
BIOET 322	Media Arts Pedagogies, Transcultural Dialogues, & Bioethics 3 Credits	The course explores how emerging technologies impact beliefs, practices, research, and communication regarding the nature of knowledge, learning, teaching, remix culture, visuality, materiality, self, and art. Engage with em

BIOET 401Q	Science, Ethics, Policy, and Law 3 Credits	This course explores the ethical, policy, and legal implications of science, and the implications of science for ethics, policy, and law. The course provides an introduction to scientific norms and practice; an introduction to the
BIOET 432	Medical and Health Care Ethics 3 Credits	This course examines ethical, social, legal, and policy issues related to the research, implementation, and practice of medicine, medical technologies, and healthcare. It uses secular ethical theories, frameworks, and concept
BIOET 496	Bioethics Independent Studies 1-9 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BIOET 497	Special Topics in Bioethics 1-9 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BMH 490	Bioethics and Medical Humanities Capstone Course 3 Credits	Students will integrate knowledge from their BMH minor through discussion and writing a paper on some aspect of medical humanities.
BE 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BE 100	Growing Your Future--First-Year Seminar 1 Credits	This first-year seminar introduces students to the university in general and to the breadth of the Biological Engineering (BE) and Agricultural and Biorenewable Systems Management (ABSM) programs. Students participate in
BE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BE 299	Foreign Studies 1-12 Credits/Maximum of 12	Course offered in foreign countries by individual or group instruction
BE 301	Mathematical Modeling of Biological and Physical Systems 3 Credits	The ability to quantify relationships into mathematical models, and implement the models into the computer to find solutions, is essential for engineering analysis and design. This course provides the student with tools for mo
BE 302	Heat and Mass Transfer in Biological Systems 4 Credits	This course applies the principles of heat and mass transfer to natural and engineered biological systems, ranging from soil/water ecosystems to animal, plant, and microbial production systems. Heat transfer mechanisms (c
BE 303	Structural Systems in Agriculture 3 Credits	The objective of this course is to provide the student with the essential skills necessary to engage in practical agricultural structure analysis and design. Topics include a review of shear, moment and deflection concepts; load
BE 305	Agricultural Measurements and Control Systems 3 Credits	Principles of measurements, instruments, controls, and data acquisition systems, with emphasis on agricultural applications. B E 305 Agricultural Measurements and Control Systems (3)Engineers and scientists are routinely
BE 306	Machines for Agricultural and Biological Processing 3 Credits	This course is designed to provide a broad foundation for understanding machine system design for Biological Engineering students. In addition, this course serves as a foundation for those wishing to develop a more focuse
BE 307	Principles of Soil and Water Engineering 3 Credits	BE 307 focuses on utilization and engineering of soil-water resources, including rainfall-runoff, soil-water movement, erosion/sediment transport and flow processes. For each topic, the significance, underlying principles and
BE 308	Engineering Elements of Biochemistry and Microbiology 3 Credits	Introduction to basic biochemistry and microbiology as well as industrial and environmental applications. B E 308 Engineering Elements of Biochemistry and Microbiology (3) B E 308 provides an introduction to microbiology,
BE 391	Communication Skills for BE and ABSM Students 2 Credits	This course is one part of a two-semester experience in discipline-specific communication and leadership skills training. A key facet of this training is contextual approach. To meet the needs of BE and ABSM students, the co
BE 392	Leadership and Ethics for BE and ABSM Students 2 Credits	This course is the second half of a two-semester experience in leadership, ethics, and communication skills training, following ABSM/BE 391. Course modules focus on leadership and communication needs of industry withir
BE 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BE 404	Engineering Properties of Food and Biological Materials 3 Credits	Engineering properties play a crucial role during the analysis, design, and synthesis phases of problem solving. The accurate knowledge of properties is essential to the precise determination of the overall system and compo
BE 460W	Biological Engineering Design I 2 Credits	BE 460W is part one of a two course sequence that provides a culminating design experience for students in the Biological Engineering major. Students will develop skills and techniques for managing and executing engineer
BE 461	Design of Fluid Power Systems 3 Credits	This course is designed to provide a solid foundation for understanding hydraulic and pneumatic systems for power transmission and motion control, including hydrostatic transmissions and electro-hydraulic systems. Applic
BE 462	Design of Wood Structures 3 Credits	BE 462 covers structural properties of wood, design of wood structural elements, design of wood structural systems, and design of post-frame buildings. The course begins by defining the structural loads applicable to wood
BE 463	Design Principles of Mechatronics for Biosystems 3 Credits	This course applies the basics of mechatronic systems such as controller, sensor, and actuator theory to agricultural and biological systems. Applications in agricultural and biological systems will be covered throughout the s
BE 464	Bioenergy Systems Engineering 3 Credits	In the coming decades biomass will play an increasing role in satisfying society's energy and material needs, providing a renewable alternative to fossil fuels. This course will cover the fundamental theories and applied techn
BE 465	Food and Biological Process Engineering 3 Credits	Engineering principles of fluid flow, thermal processes and other topics will be applied to the design of systems for the food and biological process industry. Due to the focus on unit operations and material and energy balanc
BE 466W	Biological Engineering Design II 2 Credits	BE 466 is part two of a two course sequence that provides a culminating design experience for students in the Biological Engineering major. Students will develop skills and techniques for managing and executing engineerin
BE 467	Design of Stormwater and Erosion Control Facilities 3 Credits	This course equips students with the ability to design sediment and stormwater impoundments and erosion control structures used in agriculture and the development of the agricultural-urban interface. Predictive hydrology i
BE 468	Microbiological Engineering 3 Credits	Microbiological engineering is the application of basic engineering principles and designs in biochemical and biological processes. The purpose of this course is to provide an understanding of conversions of raw agricultural
BE 477	Land-Based Waste Disposal 3 Credits	The course focuses on exploration of the fundamental principles and processes that determine the fate of nutrients and pollutants in liquid and semi-solid wastes that are applied to the soil for recycling and disposal. These p
BE 487	Simulation Modeling for Water Resources Management 3 Credits	This course will provide hands-on experience of several commonly available simulation models for natural resources engineers for investigating water resources related issues. The models will serve as a base from which stud
BE 494	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
BE 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of a Biological Engineering honors thesis
BE 495	Agricultural Engineering Internship 1-6 Credits/Maximum of 6	Independent study and supervised cooperative education experience related to the student's career objective.
BE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BISC 1	Structure and Function of Organisms 3 Credits	This course is an introduction into the cellular structures and processes that take place in living organisms, and how life displays unity even in its diversity. This course is a basic overview of several subdisciplines within biolog
BISC 2	Genetics, Ecology, and Evolution 3 Credits	In BISC 2 (GN;3cr.), students will explore concepts, current issues, and the relationship between three core areas of biological sciences: Genetics, Ecology and Evolution. In studying genetics, students will discover how gene
BISC 3	Environmental Science 3 Credits	We are living in extraordinary times. Our numbers have now become so large, our power so great, and our consumption so rampant that we are despoiling our home. Indeed, over the past half-century environmental scientist
BISC 4	Human Body: Form and Function 3 Credits	BISC 4 Human Body: Form and Function (3) (GN) (BA) This course introduces students to the biological principles fundamental to understanding human life. Cell structure, biochemistry and metabolism, and the structure and
BIOL 1	Preparation Skills for Success in Biology and Life Sciences 1 Credits	A foundation course that emphasizes study skills and reviews basic biological, chemistry and mathematical principles. BIOL 1 Biology of Success (1) This course is designed to facilitate success in the required science cours
BIOL 3	Peer Learning in Biology 1 Credits	Group and learning skills to facilitate the understanding of complex biological processes. BIOL 3 Peer Learning in Biology (1) The study of Biology is complicated by the myriad pathways and processes that must be masterec
BIOL 11	Introductory Biology I 3 Credits	The twelve primary topic areas within BIOL 11 are: An introduction to major themes within the course, defining life, and how natural selection operates through differential reproduction. All organisms are composed of matter a
BIOL 12	Introductory Biology II 1 Credits	Laboratory exercises demonstrating principles of biology.

BIOL 110	Biology: Basic Concepts and Biodiversity 4 Credits	A study of the fundamental concepts of biology including the evolution of the major groups of organisms. BIOL 110 Biology: Basic Concepts and Biodiversity (GN)(BA) This course meets the Bachelor of Arts degree requiremen
BIOL 110H	Honors Biology: Basic Concepts and Biodiversity 4 Credits	Honors study of the evolution of the major groups of organisms including the fundamental concepts of biology. BIOL 110H Honors Biology: Basic Concepts and Biodiversity (4) (GN)(BA) This course meets the Bachelor of Arts
BIOL 110S	Biology: Basic Concepts and Biodiversity 4 Credits	A study of the evolution of the major groups of organisms including the fundamental concepts of biology. This course also fulfills the First-Year Seminar requirements. BIOL 110S Biology: Basic Concepts and Biodiversity (3)
BIOL 127	Introduction to Plant Biology 3 Credits	Cellular structure, organization, and metabolism; plant anatomy and physiological processes; plant reproduction and development; genetics and evolution; relationships and features of plant groups. Students who have passe
BIOL 128	Investigations in Anatomy with Cadavers 1 Credits	This course provides students with an introduction to the science of anatomy and uses human cadavers for some activities. No previous experience in anatomy is required. Classroom discussions include the fundamentals of
BIOL 129	Mammalian Anatomy 4 Credits	Anatomy of a mammal, with special reference to that of man. Students who have passed BIOL 421 may not schedule this course. BIOL 129 Mammalian Anatomy (4) (GN)(BA) This course meets the Bachelor of Arts degree re
BIOL 133	Genetics and Evolution of the Human Species 3 Credits	Human heredity and evolution, individual and social implications. The course is for non-majors; students who have passed BIOL 222, 230W, B M B 251 or any upper-division biology course may not schedule this course. BIO
BIOL 141	Introduction to Human Physiology 3 Credits	BIOL141 is a 3-credit course focused on the function of the human body. Students that complete this course will develop both a foundational understanding of key terms and processes related to physiology, as well as a dee
BIOL 142	Physiology Laboratory 1 Credits	Experiments demonstrating basic physiological principles, with special reference to man.
BIOL 144	Climate Change: Biological Impacts 3 Credits	A study of the interactions of organisms with their environment through exploration of the biological impacts of climate change on individuals, populations, ecological communities, and ecosystems. Students will develop skill
BIOL 155	Introduction to the Biology of Aging 3 Credits	Biology 155 is a 3 credit General Education Science course designed to give both science and non-science majors a basic understanding of the aging process, with special emphasis on aging as it relates to the human body
BIOL 160N	Fitness with Exercise Physiology 3 Credits	Biology of Exercise is an integrative exercise physiology course that combines performing physical activity (Kinesiology) and applying biological principles (Biology). This course will explain the benefits, changes, and process
BIOL 161	Human Anatomy and Physiology I - Lecture 3 Credits	This is the first lecture course of a two semester sequence introducing human anatomy and physiology, which is the branch of biology that focuses on the structure and function of the human body. Lectures will take a "syste
BIOL 162	Human Anatomy and Physiology I - Laboratory 1 Credits	This is the first laboratory course of a two-semester sequence introducing human anatomy and physiology. The A&P I laboratory complements the A&P I lecture by providing students with hands-on experiences such as exan
BIOL 163	Human Anatomy and Physiology II - Lecture 3 Credits	This is the second lecture course of a two semester sequence introducing human anatomy and physiology, which is the branch of biology that focuses on the structure and function of the human body. Lectures will take a "sy
BIOL 164	Human Anatomy and Physiology II - Laboratory 1 Credits	This is the second laboratory course of a two-semester sequence introducing human anatomy and physiology. The A&P II laboratory complements the A&P II lecture by providing students with hands-on experiences such as
BIOL 169N	What it means to be human 3 Credits	This course will investigate the distinctiveness of Homo sapiens, using fossil and non-human animal comparisons to highlight how modern humans are both similar to and different from other species. Basic elements from the
BIOL 177	Biology of Sex 3 Credits	This course presents a thorough background on the basic structure and function of the human reproductive system, gender as it relates to biology across the lifespan, endocrine regulation of the reproductive system across t
BIOL 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BIOL 220M	Honors Biology: Populations and Communities 4 Credits	Honors study of the major physical, chemical, and biological factors constituting environment and their dynamic interaction with organisms forming ecosystems. A study of the structures and functions of organismic interactio
BIOL 220W	Biology: Populations and Communities 4 Credits	A study of the structures and functions of organismic interactions from simple populations to complex ecosystems. (BIOL 220W, BIOL 230W, and BIOL 240W each carry only 1 credit of "writing"; all three courses must be tak
BIOL 222	Genetics 3 Credits	Variation and heredity in bacteria, plants, and animals; relationships of genetic knowledge to evolution and breeding practices. This course is for students in life sciences majors that are not Biology, Genetics and Developmen
BIOL 230M	Honors Biology: Molecules and Cells 4 Credits	This four credit course with lecture and laboratory components provides an understanding of the major unifying principles of life as they apply to the study of the molecular mechanisms underpinning the function of living orga
BIOL 230W	Biology: Molecules and Cells 4 Credits	BIOL 23OW is a four credit course with lecture and laboratory components. (BIOL 220W, BIOL 230W, and BIOL 240W each carry only 1 credit of "writing"; all three courses must be taken to meet the writing requirement.) The
BIOL 240M	Honors Biology: Function and Development of Organisms 4 Credits	Honors study of development and physiological processes at the organismic level. (BIOL 220W , BIOL 230W , and BIOL 240W each carry only 1 credit of "writing"; all three courses must be taken to meet the writing requiren
BIOL 240W	Biology: Function and Development of Organisms 4 Credits	A study of development and physiological processes at the organismic level. (BIOL 220W, BIOL 230W, and BIOL 240W each carry only 1 credit of "writing"; all three courses must be taken to meet the writing requirement.) Th
BIOL 251	Peer Leadership in Biology 1 Credits	Leadership training in guiding others to learn, communicate, and apply biological principles. BIOL 251 Peer Leadership in Biology (1) The study of Biology is complicated by the myriad pathways and processes that must be r
BIOL 261	Reading Seminar in the Health Professions 1 Credits/Maximum of 2	Students will read and discuss 3 to 4 books of creative nonfiction that address issues in the health professions. These may include collections of reflective essays from health professionals, historical narratives of diseases or
BIOL 294	Research Project 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small-group basis.
BIOL 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BIOL 296G	Special Topics 1 Credits	No description
BIOL 296H	Independent Studies 1 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BIOL 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

BIOL 322	Genetic Analysis 3 Credits	This course describes the principles of Genetics at the level of molecules, genomes, cells, organisms, and populations. It emphasizes the structure and function of genes and genomes, the regulation of gene expression, the
BIOL 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BIOL 400	Teaching in Biology 1-6 Credits/Maximum of 6	This course will train biology teaching assistants to teach in the laboratory/ recitation setting with emphasis on critical thinking skills. BIOL 400 BIOL 400 Teaching in Biology (1-3) This course provides teaching assistants wit
BIOL 402W	Biological Experimental Design 3 Credits	Discussion of experimental design, analysis and presentation, with a practicum providing for student design, analysis and presentation of biological experiments. Students may not take this course if they have taken BIOBD 3
BIOL 403	Biological Writing and Communication for Research 3 Credits	Each student will pose and address their own research question with support from the scientific research literature. Each student will share their own research findings in written and oral formats, both for scientific and genera
BIOL 404	Cellular Mechanisms in Vertebrate Physiology 3 Credits	This course is focused on cellular and molecular mechanisms governing physiological aspects of vertebrate cell signaling, and will consider how these mechanisms are adapted to particular organismal functions. To illustrate
BIOL 405	Molecular Evolution 3 Credits	This course is designed to introduce the concepts of evolution from a molecular point of view and the basic techniques of analysis of molecular sequence data. The class will include a mixture of lecture-based and student ac
BIOL 406	Symbiosis 3 Credits	Mutualisms (interactions between two species that benefit both of them) occur in every habitat on Earth, and nearly every species on the planet is involved directly or indirectly in one or more of these interactions. The influen
BIOL 407	Plant Developmental Anatomy 3 Credits	The course will provide students with an understanding of the developmental anatomy of plant organs, tissues and cells throughout the plant life cycle. When appropriate, the course will discuss genes involved in the formatic
BIOL 409	Biology of Aging 3 Credits	This course focuses on the molecular, cellular and physiological changes that are associated with the aging process. Diseases that are associated with aging will also be addressed. Continual emphasis will be placed on inter
BIOL 411	Medical Embryology 3 Credits	This course offers an overview of Human Embryology, including reproductive physiology, infertility, the events and timeframes characterizing human embryological development, the structure and function of developing huma
BIOL 412	Ecology of Infectious Diseases 3 Credits	This course will take an ecological approach to the study and control of infectious diseases. The course examines the dynamics of disease, how parasites (worms, bacteria and viruses) spread through a host population, the
BIOL 413	Cell Signaling and Regulation 3 Credits	Introduction to the molecular mechanisms by which cells send, receive, regulate, and respond to signals. Through review of primary literature, students will explore the variety of mechanism by which endocrine, paracrine, an
BIOL 414	Taxonomy of Seed Plants 3 Credits	This course provides an introduction to modern plant systematics as exemplified by the wide diversity of living plants growing in central PA. By the end of the course, students will be able to: 1) use the technical vocabulary th
BIOL 415	Ecotoxicology 3 Credits	Ecotoxicology is an interdisciplinary field that involves the study of chemicals and radiation on organisms and their environment. The goal of this course is to introduce the science of ecotoxicology, including a survey of class
BIOL 416	Biology of Cancer 3 Credits	Biology of Cancer introduces basic biological aspects of cancer development with an emphasis on molecular and cellular mechanisms of tumorigenesis. It discusses how molecular genetic approaches can be used to reveal
BIOL 417	Invertebrate Zoology 4 Credits	Function and form of major invertebrate phyla.
BIOL 418	Biology of Human Infectious Diseases 3 Credits	In this class, students look carefully at diseases that impact human populations and the successes and failures in disease management. This class includes case studies of diseases and disease control in recent history as we
BIOL 419	Ecological and Environmental Problem Solving 3 Credits	The course will provide a general overview of the process involved in studying a variety of ecological and environmental problems. It will provide a toolbox of techniques for understanding ecological and environmental proble
BIOL 420	Paleobotany 3 Credits	Classification, morphology, phylogeny, and stratigraphic occurrence of fossil plants; practicum includes field trips and study of paleobotanical techniques and specimens. GEOSC 420 BIOL (GEOSC) 420 Paleobotany (3) Lan
BIOL 421	Comparative Anatomy of Vertebrates 4 Credits	BIOL 421 / VBSC 421 Comparative Anatomy of Vertebrates Students will study vertebrate anatomy from an evolutionary and developmental perspective. They will become familiar with important structures, terminology and f
BIOL 422	Advanced Genetics 3 Credits	Now is an exciting time for evolutionary, quantitative, and disease genetics. Increasingly sophisticated technologies are making it possible to obtain dense genomic data from large numbers of individuals from a variety of taxa
BIOL 424	Seeds of Change: The Uses of Plants 3 Credits	It is not possible to conceive of civilization, or life on earth for that matter, without plants. Through photosynthesis and oxygen production, plants are the major producers of biomass and constitute the base of the food pyram
BIOL 425	Biology of Fungi 4 Credits	BIOL 425 / PPEM 425 (4 cr.) is a lecture and laboratory survey of the diversity of Fungi, consisting of two 75-minute lecture and two 180-minute laboratory/field activity periods per week. The course moves from branch to bra
BIOL 426	Developmental Neurobiology 3 Credits	This course will provide a general overview of developmental processes as they apply to the central nervous systems. From initial differentiation of neuronal tissue to the aging of human brain, this course will expose students
BIOL 427	Evolution 3 Credits	This course will study the theory of evolution and the different levels at which biological evolution can be examined ranging from macroevolution and the fossil record to microevolutionary processes at the population level. It
BIOL 428	Population Genetics 3 Credits	This is an exciting time for population genetics research. Increasingly sophisticated technologies are making it possible to obtain dense genomic data from large numbers of individuals. Further, advances in population genetic
BIOL 429	Animal Behavior 3 Credits	Physiological mechanisms, ecological relevance, and adaptive significance of animal behavior.
BIOL 430	Developmental Biology 3 Credits	Developmental Biology introduces students to one of the most complex and exciting areas of modern biology. This course will cover basic concepts using a comparative embryology approach and focus on molecular and ge
BIOL 431	Reproductive Biology 3 Credits	Reproductive Biology is an upper-level undergraduate course. The course will discuss topics in reproductive development and physiology, which can include development of gonads and the germline, sex determination, meic
BIOL 432	Developmental Genetics 3 Credits	An advanced course in developmental biology, focusing on the use of genetics techniques to study fundamental questions of animal development. Topics taught in this course include an introduction of popular model organis
BIOL 433	Evolution of Vertebrates 3 Credits	This course focuses on the evolution of vertebrate animals, beginning with an overview of vertebrate classification and a consideration of early vertebrate evolution. Each group of vertebrates (fishes, amphibians, reptiles, bird
BIOL 434	Pathobiology of Emerging Infectious Disease 3 Credits	This course examines the biology of emerging and reemerging infectious diseases. The course includes viral, bacterial, and eukaryotic pathogens causing serious mortality and morbidity. Major course topics include a historic
BIOL 435	Ecology of Lakes and Streams 3-4 Credits	Physical, chemical, and biological characteristics of freshwater environments, with special emphasis on factors regulating productivity in freshwater ecosystems.
BIOL 436	Population Ecology and Global Climate Change 3 Credits	Ecological responses of individuals, populations, and communities to environmental variation, with emphasis on climate change. BIOL 436 BIOL 436 Population Ecology and Global Climate Change (3)In this course, students
BIOL 437	Histology 4 Credits	This course develops a visual, conceptual, and functional understanding of histology, the microanatomy of body cells, tissues, and organs. The lecture portion of this course will use diagrams, digital images, and didactic exp
BIOL 439	Practical Bioinformatics 3 Credits	Practical aspects of retrieving and analyzing biological information residing in common databases. BIOL 439 Practical Bioinformatics (3) This course focuses on practical aspects of biological databases and analyses of mole
BIOL 440	Evolution of Infectious Diseases 3 Credits	Infectious diseases have been adapting to humans for as long as we have been organized into communities - from small agricultural ones to the megacities of the twenty-first century. Malaria, tuberculosis, and plague shape
BIOL 441	Plant Physiology 3 Credits	Classical and current concepts in plant constituents, mineral nutrition, water relations, respiration, photosynthesis, photoperiodism, plant growth regulators, growth and development, and responses to the environment. Using
BIOL 442	Evolutionary Medicine 3 Credits	Evolutionary medicine is the application of evolutionary theory to the study of human health and disease. Health is affected by things like the aging process, the microbiome, cancer, infectious disease, and antibiotic resistanc
BIOL 443	Evo-devo: Evolution of Developmental Mechanisms 3 Credits	Evolutionary Developmental Biology (Evo-Devo) is an interdisciplinary field that combines developmental biology, comparative genetics, and evolution to understand how organisms have attained their diversity in form. While
BIOL 444	Field Ecology 3 Credits/Maximum of 3	This field course will explore the flora and fauna of the mid-Atlantic area. BIOL 444 Field Ecology of the Central Appalachian Highlands (3) This course is designed to take advantage of the teaching opportunities presented b
BIOL 445	Molecular Ecology 3 Credits	Evolutionary and ecological processes can now be better understood through the application of molecular and genomic tools. The course will explore the history of the application of molecular tools as well as the contempor
BIOL 446	Physiological Ecology 3 Credits	This course introduces students to the study of interactions between physiological capabilities of organisms, their ecology and, more broadly, their environment. This course looks at how organisms work and what it is about
BIOL 448	Ecology of Plant Reproduction 3 Credits	Analysis of the ecology, evolution, and natural history of plant reproduction. We focus on angiosperms (flowering plants) but also touch on the broader reproductive diversity in plants. Our topics include pollination, fruit-set, d
BIOL 450W	Experimental Field Biology 3-5 Credits	This is a practical introduction to modern design of field studies and experiments in terrestrial and fresh water habitats. This is an outdoor course almost as much as a classroom one. Be prepared to go outside, develop the p
BIOL 451	Biology of RNA 3 Credits	Ribonucleic acid (RNA) plays a central role in all organisms on earth, and was very likely the central molecule during the origin of terrestrial life. This course will explore the biological functions that RNA plays in diverse organis
BIOL 455	Stem Cell Biology and Therapy 3 Credits	This course will give an overview of milestones in stem cell research and will expose students to current topics at the frontier of this field. It will introduce students to the different types of stem cells as well as factors and sign
BIOL 459	Plant Tissue Culture and Biotechnology 3 Credits	The overall goal of this course is to provide a strong overview of the techniques used in plant biotechnology and the applications made possible by those techniques. The lecture topics will be used to introduce the principles
BIOL 460	Human Genetics 3 Credits	This course will cover the nature and contents of the human genome and the basic principles of evolution. We will also explore the future implications of personal genomics and how this information is being used to reconstru
BIOL 460H	Honors Human Genetics 4 Credits	This course will cover the nature and contents of the human genome and the basic principles of evolution. We will also explore the future implications of personal genomics and how this information is being used to reconstru
BIOL 461	Contemporary Issues in Science and Medicine 3 Credits/Maximum of 3	Current/classical issues relating to health, research, agriculture, environment, and biotechnology. Active exploration of the impact of science on society. BIOL 461 Contemporary Issues in Science and Medicine (3) The aim o
BIOL 462	History of Biology 3 Credits	History of Biology is an exploration of the history that led to our current biological knowledge. The course is organized chronologically from the Antiquity to the end of the 20th century, focusing on the development of ideas s
BIOL 463	General Ecology 3 Credits	Illustrates science of ecology, from individual, population, and community- level perspectives, discusses applications of this science to issues of conservation of biodiversity.
BIOL 464	Sociobiology 3 Credits	Life is social. From quorum sensing bacteria blocking up urinary catheters to the seemingly poetic integration of millions of bodies during an army ant raid. And of course there are humans; that singularly unique species once
BIOL 465	Network analysis of biological systems 3 Credits/Maximum of 3	The survival of a cell, organism or population in a variable environment depends on mounting specific responses to external stimuli. Each of these responses is governed by the coordinated action of multiple (potentially num
BIOL 467	Molecular Basis of Neurological Diseases 3 Credits	This course provides up-to date knowledge of and insight into the molecular/cellular/genetic basis of the neurological diseases. The focus will be on neurodegenerative and cognitive disorders with a relative high prevalence
BIOL 469	Neurobiology 3 Credits	Students will acquire an understanding of basic neurobiology, the terminology of neuronal structures and functions, as well as experimental approaches designed to integrate the principles of neural cell biology, neurophysiol

BIOL 470	Functional and Integrative Neuroscience 3 Credits	Neurobiological function in motivated behaviors, motor and sensory function, learning and memory, development, sexual differentiation, and pathology.
BIOL 472	Human Physiology 3 Credits	Physiology is the science explaining body function at system, organ, cellular, and biochemical levels. This course explores the fundamentals of human physiology and its clinical applications. The target audience is advanced
BIOL 473	Laboratory in Mammalian Physiology 2 Credits	Laboratory experiments demonstrating fundamentals in physiology.
BIOL 474	Astrobiology 3 Credits	Astrobiology is the study of life in the universe. Astrobiology has become a major focus of scientific research in the United States and a topic often discussed in popular science literature. The recent interest in astrobiology ha
BIOL 475	Human Pathophysiology 3 Credits	This course focuses on manifestations of human diseases and the changes that occur at the molecular, cellular, tissue, organ, and system levels to cause disease states. Topics covered include mechanisms of disease, inflam
BIOL 476	Advanced Human Anatomy - cadaver based 3 Credits	Advanced Human Anatomy is an in-depth human anatomy course with both a lecture and lab component. Lecture meets twice per week for 50 minutes, and lab meets once per week for 2 hours in the cadaver lab. In lecture,
BIOL 477	Biology Cadaver Dissection 3 Credits	This course is an advanced exploration of human anatomy, based around cadaveric dissection. We will take a "regional" approach to learning anatomy, meaning that we will focus on each region of the body in turn. There will
BIOL 478	COMPARATIVE NEUROANATOMY 3 Credits	This course provides instruction on the functional and structural organization of the vertebrate nervous system. In addition to lectures, students attend laboratory sessions devoted to human brain dissections, histologic secti
BIOL 479	General Endocrinology 3 Credits	Endocrine mechanisms regulating the morphogenesis, homeostasis, and functional integration of animals.
BIOL 482	Coastal Biology 3 Credits	BIOL 482 is a lecture course designed to introduce participants to the Caribbean coral reef biome and other near-shore environments such as rocky shores, mangroves and seagrass beds. Students will learn through theoreti
BIOL 483	Coastal Biology Travel Experience 2 Credits	BIOL 483 is the optional intensive field travel experience for BIOL 482: Coastal Biology to the beautiful island of Curacao, part of the Netherland Antilles in the southern Caribbean. The course reinforces content from BIOL 48
BIOL 484	Biodiversity of Pennsylvania 4 Credits	In this course, students will study the species diversity of Pennsylvania. To understand the biodiversity that we see in Pennsylvania today, we will discuss the evolutionary, ecological, environmental, and historical factors that
BIOL 489	Biology of Ecohealth in Tanzania 3 Credits	EcoHealth is an emerging field that examines the complex relationships among humans, animals, plants, and the environment, and how these relationships affect overall health of ecosystems. The ecohealth approach has be
BIOL 492	Senior Seminar in Biology 1 Credits	Discussion of selected topics from recent biological literature; reports on current research or internship experiences.
BIOL 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
BIOL 495	Internship in Biology 1-12 Credits/Maximum of 12	Practical off-campus experience in Biology under the supervision of a professional and a faculty member.
BIOL 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BIOL 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BIOL 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BIOL 498A	**SPECIAL TOPICS** 0.5-5 Credits	No description
BIOL 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BIOL 499A	Tropical Field Ecology 3 Credits/Maximum of 999	A research-intensive, active learning course taught entirely in Costa Rica during the winter break. Students depart from wherever they are and rendezvous in Costa Rica, with detailed plans and contingencies in the event of p
BME 100	Biomedical Engineering Seminar 1 Credits	First-year seminar to introduce the students to the field of biomedical engineering, and related opportunities in research, and industry. BME 100S Biomedical Engineering Seminar (1) A first-year seminar designed for student
BME 201	Fundamentals of Cells and Molecules 3 Credits	Cell and molecular biology taught from an engineering perspective. Includes biochemistry, recombinant DNA, and cell structure/function. BME 201 Cell and Molecular Bioengineering (3) This course provides students founda
BME 301	Analysis of Physiological Systems 4 Credits	Analysis of physiological signals and modeling of physiological systems by electrical and mechanical analogs in the context of continuous linear systems. BME 301 Analysis of Physiological Systems (3) Analysis of physiolog
BME 303	Bio-continuum Mechanics 3 Credits	Mechanical properties of fluids and solids with applications to tissue mechanics and vascular system. BME 303 Bio-continuum Mechanics (3) The course serves as an introduction to continuum mechanics for students of bio
BME 313	Thermodynamics for Biomedical Engineering 3 Credits	Chemical processes, including material and energy balances and heat transfer with emphasis on biological and biomedical applications. BME 313 Thermodynamics for Biomedical Engineering (3) The course provides and int
BME 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BME 401	Numerical Simulations in Biomedical Engineering 3 Credits	Integration of design theory and finite element analyses for the development of solutions to problems in biomedical engineering. BME 401 Numerical Simulations in Biomedical Engineering (3) Biomedical engineers develop r
BME 402	Biomedical Instrumentation and Measurements 3 Credits	Biomedical measurements, including consideration of techniques, equipment, and safety. BME 402 Biomedical Instrumentation and Measurements (3) This course is designed to introduce students to the principles, applicati
BME 403	Biomedical Instrumentation Laboratory 1 Credits	Building basic biomedical signal processing circuits and biomedical measurement systems, experiments in medical imaging techniques, and measurement of bio-potentials. BME 403 Biomedical Instrumentation Laboratory
BME 406	Medical Imaging 3 Credits	Physical principles and clinical applications of medical imaging methods. BME 406 Medical Imaging (3) This course covers all four major diagnostic medical imaging modalities including x-ray, ultrasound, radioisotope imagir
BME 408	Solid Mechanics of Biological Materials 3 Credits	This course presents advanced topics in solid mechanics that are important for understanding the behavior and function of biological materials, including cardiovascular tissues (e.g., blood vessels, myocardium, epicardium),
BME 409	Biofluid Mechanics 3 Credits	The fundamental relations in fluid mechanics and their application to biofluids including steady/unsteady flows, diseased states, devices and biorheology. BME 409 Biofluid Mechanics (3) This course is a first course in fluid r
BME 410	Biomedical Applications of Microfluidics 3 Credits	Study of fluid mechanics at small length scales including fabrication of microfluidic devices and microfluidic components, lab-on-chip concept and applications. BME 410 Biomedical Applications of Microfluids (3) Microfluid
BME 413	Mass Transport in Biological Systems 3 Credits	An integrated study of the fundamentals of mass transport processes with emphasis on the analysis of physiological systems. BME 413 Mass Transport in Biological Systems (3) This course provides an introduction to mass
BME 419	Artificial Organs and Prosthetic Devices 3 Credits	Analysis of function and consideration of design concerns for biomedical implants, including prosthetic joints, electrical stimulators, and cardiovascular pumps. BME 419 Artificial Organs and Prosthetic Devices (3) This cours
BME 423	Reaction Kinetics of Biological Systems 3 Credits	Chemical kinetics and reaction equilibria with applications to the analysis of physiological function and the design of synthetic organs. BME 423 Reaction Kinetics of Biological Systems (3) Chemical reactions are the underlyi
BME 429	Biomedical Mechanics and Techniques Laboratory 2 Credits	Experimental laboratory that includes hands-on measurement, computational simulations, and statistical analysis of biofluids, biosolids, and biomaterial phenomena. BME 429 Biomedical Mechanics and Techniques Laborat
BME 433	Drug Delivery 3 Credits	Engineering and biological principles as applied to pharmaceutical transport and designing drug carriers. BME 433 Drug Delivery (3) The success of drug delivery depends on not only the understanding of chemical synthesis
BME 437	Biomedical Data Science for Bioengineers 3 Credits	This course is an introduction to the theory and practice of biomedical data science. We will focus on applications of data analysis to problems in the diagnosis and treatment of human disease. Applied biomedical data scien
BME 440	Biomedical Engineering Professional Seminar 1 Credits	Seminar giving students exposure to professionals who apply engineering and related fields to biology and medicine. BME 440 Biomedical Engineering Professional Seminar (1) A senior seminar introducing students to profe
BME 443	Biomedical Materials 3 Credits	Describe properties of materials and composites and their in vivo interactions. BME 443 (MATSE 403) Biomedical Materials (3) Metals, polymers, and ceramics, and their composites, which are capable of emulating the funct
BME 444	Surfaces and the Biological Response to Materials 3 Credits	Focus is on special properties of surface as an important causative and mediating agent in the biological response to materials.
BME 445	Tissue Engineering: Concepts, Calculations and Applications 3 Credits	Introduction to interdisciplinary tissue engineering concepts, associated biochemical and biomechanical engineering calculations, and cardiovascular, musculoskeletal, and other tissue application examples. BME 445 Tissue
BME 446	Polymers in Biomedical Engineering 3 Credits	Foundations in polymer chemistry and physics, polymer design, characterization, and processing with a focus on biomedical applications.
BME 448	Regulatory Affairs 3 Credits	This course provides an overview of the FDA regulatory process for drug, biologics, and device development. Through course work and class based discussion, students will have an opportunity to develop the foundations n
BME 450W	Biomedical Senior Design 3 Credits	Team based capstone design course with open ended project for industry or clinical applications related to Biomedical Engineering. BME 450W Biomedical Senior Design (3) This course is a culminating design experience w
BME 455	Stem Cell Biology and Therapy 3 Credits	This course will give an overview of milestones in stem cell research and will expose students to current topics at the frontier of this field. It will introduce students to the different types of stem cells as well as factors and sign
BME 494H	Honors Thesis 1-3 Credits/Maximum of 6	Independent study research and design, leading towards honors thesis.
BME 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BME 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BME 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BE_T 101	Introduction to Medical Equipment Maintenance 1 Credits	Introduction to the field of clinical engineering and the management of medical equipment and systems. BE_T 101 Introduction to Medical Equipment Maintenance (1) BE_T 101 is an introductory course in medical equipmen
BE_T 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BE_T 201	Medical Equipment & Systems I 5 Credits	Introduction to the field of biomedical engineering technology, electrical wiring devices, theories of measurement, cardiovascular systems and ECG monitor operation. BE T 201 Medical Equipment & Systems I (5) This cours
BE_T 203	Biomedical Equipment Laboratory (Internship) 4 Credits	Practical experience, within or related to the hospital environment, on a variety of biomedical instruments. BE T 203 Biomedical Equipment Laboratory (4) The final semester internship is a curriculum requirement for the Biom
BE_T 204W	Medical Equipment and Systems II 5 Credits	Principles of medical equipment: operation, application; circuit and block diagrams; preventive maintenance inspections; and troubleshooting with report writing and presentations. BE T 204W Medical Equipment and Syster

BE_T 205	Medical Electronics 4 Credits	Solid state devices, diodes, power supplies, operational amplifiers, transistors, timing circuits, high power devices, circuits as applied to medical devices. BE T 205 Medical Electronics (4) BET 205 introduces solid state devi
BE_T 206	Medical Computers and Networks 4 Credits	Introduction to computer hardware, software and networks for medical equipment; PC and medical equipment hardware; networking fundamentals. BE T 206 Medical Computers and Networks (4) This course provides an intr
BE_T 210	Troubleshooting Medical Equipment 3 Credits	Methods and strategies for troubleshooting medical equipment, systems and electronics components. BE T 210 Troubleshooting Medical Equipment (3) BE T 210 will provide students with methods and strategies for servicir
BE_T 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
BE_T 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BRS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BRS 393	Industry Tour 1-2 Credits/Maximum of 2	A week-long tour of bioproducts and agricultural systems industries. BRS 393 Bioresources Industry Tour (1) This is a week long course, in which students will travel to tour relevant manufacturing facilities. Roughly half of th
BRS 437	Bioproduct Marketing and Sales 4 Credits	Business-to-business bioproduct sales and marketing fundamentals and market overview of key forest industry sectors including biorefinery value chain outputs. BRS 437 Bioproduct Marketing and Sales (4) This course cov
BIOTC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BIOTC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BIOTC 416	Microbial Biotechnology 3 Credits	The overall goal of Microbial Biotechnology (3 cr.) is to provide students with an opportunity to apply their knowledge of microbiology and biotechnology to the synthesis of biologically important and industrially useful produc
BIOTC 459	Plant Tissue Culture and Biotechnology 3 Credits	The overall goal of this course is to provide a strong overview of the techniques used in plant biotechnology and the applications made possible by those techniques. The lecture topics will be used to introduce the principles
BIOTC 460	Advances and Applications of Plant Biotechnology 3 Credits	This course provides a comprehensive overview and current status of plant biotech research. The course provides knowledge of plant systems that fall in the category of GMOs. BIOTC 460 / AGRO 460 Advances and Applica
BIOTC 479	Methods in Biofermentations 3 Credits	The overall goal of this course is to enable students to plan and execute fermentation processes approaching industrial scale. Students will get hands-on experience setting up and monitoring fermenters, as well as conductir
BIOTC 489	Animal Cell Culture Methods 3 Credits	The overall goal of this course is to introduce students to basic principles and techniques in animal cell culture. More specifically, the course outlines the importance of animal cell culture to the field of biotechnology as it app
BIOTC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BA 100	Introduction to Business 3 Credits	A comprehensive view of the contemporary environment of business. This course provides a broad overview of the study of business and its environment, organization, operation, and interrelationships with government and s
BA 100S	Introduction to Business 3 Credits	BA 100S is a broad overview of American business practices and policies. The course introduces the functions of business and how each interacts and shapes the legal, political, social, cultural and economic environments.
BA 195	Cooperative Practicum with Business Offices 3-6 Credits/Maximum of 6	Cooperative practical work with business offices under the supervision of the instructor.
BA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BA 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BA 241	Legal Environment of Business 2 Credits/Maximum of 2	Examines the legal system's role and impact regarding business transactions, liability issues, and ownership of intellectual property. Students earning credit for B A 241 may not earn credit toward Smeal College baccalaurea
BA 242	Social and Ethical Environment of Business 2 Credits	Explores the social and ethical environment of business and ethical decision making in a business context. B A 242 Social and Ethical Environment of Business (2) Modern businesses operate in an increasingly interdepende
BA 243	Social, Legal, and Ethical Environment of Business 4 Credits	Explores the ethical, political, social, legal and regulatory, technological, and demographic diversity environment of business. A student may not receive credit toward graduation for both B LAW 243 and B A 243.
BA 250	Small Business Management 3 Credits	Analysis of problems of the small firm, particularly for the student who wishes to venture into business.
BA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BA 299	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
BA 301	Finance 3 Credits	The goal of BA 301 is to provide insight into the thinking of both the financial manager and the functional manager that is needed to effectively lead and manage not only their business organization but also their personal fina
BA 302	Supply Chains 3 Credits	BA 302 provides non-business students with an introduction to the issues and decisions routinely faced by supply chain managers and the impact of effective supply chains on today's business environment. Using the Suppl
BA 303	Marketing 3 Credits	BA 303 provides broad-based exposure and understanding of marketing and its processes. The course is a stand-alone marketing course for those interested in the role of marketing within the business context. It covers a ra
BA 304	Management and Organization 3 Credits	BA 304 is an overview of a body of knowledge that exists concerning the management of modern organizations. Management is critical to business success no matter the industry, the field or the arena. Eight key functions fo
BA 321	Contemporary Skills for Business Professionals 3 Credits	Emphasizes the development of individual, group, critical thinking, and presentation skills, through the application of modern method and business technology. B A 321 B A 321 Contemporary Skills for Business Professiona
BA 322	Negotiation Skills for Business Professionals 3 Credits	Emphasizes the preparation and conduct of business negotiations in a range of situations. B A 322 Negotiation Skills for Business Professionals (3) This course integrates the experiential and intellectual components of nego
BA 342	Socially Responsible, Sustainable and Ethical Business Practice 3 Credits	Course examines actions taken by corporations that impact global citizenship, environmental sustainability, and the economic stability of international societies. It further looks at relationships, rights, and responsibilities betv
BA 364Y	International Business and Society 3 Credits	Business organizations and the sociocultural environment; current issues; corporate responsibility; international and multinational business environments. B A 364YtB A 364Y International Business and Society (3) (US;IL) Thi
BA 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
BA 395A	Practicum in Business Administration 1 Credits/Maximum of 1	Professional and guided work experience in business administration with private or public organizations. May be taken only as an elective.
BA 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
BA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BA 411	Analyzing Business and Industry 3 Credits	Prepares students to obtain an enterprise-wide view of business and industry by integrating operational and financial decisions in a team and learning environment. B A 411B A 411 Analyzing Business and Industry (3) The co
BA 412H	Honors Integration and Research 2-3 Credits	The integration of the business core into a detailed financial, strategy and market analysis of actual companies selected by student teams. BA 412H Honors Integration and Research (2-3 credits)The purpose of this course is
BA 420	Preparation for Career Management 1 Credits	This course emphasizes effective career planning by closely examining oneself, the business world, communication styles and strategies. B A 420 Preparation for Career Management (1) BA 420 develops students' career pr
BA 421	Project Management 3 Credits	Introduction to Project Management covering all phases of a project including proposal development, planning, execution, and closing. BA 421 Project Management (3) BA 421 is designed to provide the fundamental skills ne
BA 422W	Strategic Business Planning 3 Credits	Study of strategic planning and implementation in multi-industry, multi- cultural, and multi-national settings with emphasis on sustaining competitive advantages. BA 422W Strategic Business Planning is the capstone of the s
BA 441	Strategies for Enterprise Sustainability 3 Credits	An understanding and analysis of how environmental and sustainability issues are impacting business strategies and ultimately profits. B A 441 Strategies for Enterprise Sustainability (3) Enterprise globalization warrants a gr
BA 442	Sustainable Behavior of Consumers, Firms, and Societies 3 Credits	Sustainability is a broad domain concerning the extent to which environmental, economic, and social practices are viable for current and future generations. Consumer awareness of sustainability issues has evolved from an e
BA 462	Business Strategy 3 Credits	Interpretation of business concept in the analysis of problems related to the successful management of a company, institution, or organization. Business Strategy is the study of managerial decisionmaking in a firm's competi
BA 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
BA 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
BA 495	**SPECIAL TOPICS** 3-9 Credits/Maximum of 9	No description
BA 495A	Business Internship 3-6 Credits/Maximum of 6	B A 495A Business Internship (3-6 per semester/maximum of 6) B A 495A facilitates the application of students' prior classroom learning in a field setting. This course is one of a series in the business program which collectiv
BA 495B	Undergraduate Research in Business 3-6 Credits/Maximum of 6	B A 495B Undergraduate Research in Business (3-6 per semester/maximum of 6) BA 495B provides students an opportunity to apply prior coursework to address a business problem or research question in far greater depth
BA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

BA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BA 499	Foreign Study--Business Administration 1-18 Credits/Maximum of 18	Study in selected countries of business institutions, functions, and current business problems.
BLAW 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BLAW 243	Legal Environment of Business 3 Credits	Social control through law: courts, basic policies underlying individual and contractual rights in everyday society. May not be used to satisfy Smeal College baccalaureate degree requirements. Not available to students who l
BLAW 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BLAW 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BLAW 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BLAW 341	Business Law I: Introduction to Contracts, Liability Issues, and Intellectual Prop 3 Credits	An introduction to the business environment emphasizing business contracts, liability issues arising from business relations, including those in the internet realm and intellectual property issues. Alternative dispute resolution
BLAW 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BLAW 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BLAW 424	Real Estate Law 3 Credits	Analyze contemporary law applicable to various types of ownership interests and rights, methods of transferring ownership, and use of real property. B LAW 424 B LAW (R M) 424 Real Estate Law (3) Analysis of contemporar
BLAW 441	Business Law II: Agency, Employment and Business Structure 3 Credits	An examination of the laws governing agency relationships, employment, and the various structures of commercial enterprises.
BLAW 444	Advanced UCC and Commercial Transactions 3 Credits	All articles of the Uniform Commercial Code, banking relationships, debtor- creditor law, and bankruptcy law. B LAW 444B LAW 444 Advanced UCC and Commercial Transactions (3) This course is designed to: (1) provide th
BLAW 445	Advanced Intellectual Property and Competition Law 3 Credits	Copyrights, trademarks, patents, and trade secrets followed by related topics in the regulation of competition. B LAW 445 Intellectual Property & Competition Law (3) The objectives for this course are to (1) provide students
BLAW 446	Employment Law 3 Credits	Examines the legal and regulatory environment of employment relationships. Topics include anti-discrimination; worker health and safety; and labor relations laws. B LAW 446 Employment Law (3) The course is designed for
BLAW 447	Entertainment Law 3 Credits	This course covers legal issues that arise in various entertainment industries through discussion of contemporary issues along with personality rights and intellectual property rights associated with entertainment assets. Issue
BLAW 494	Research Project 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small-group basis.
BLAW 494H	Research Project 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small-group basis.
BLAW 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
BLAW 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to exlore, in depth, a comparatively narrow subject which may be topical or of special interest.
BLAW 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
BLAW 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHE 97.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHE 99.00	Foreign Studies 1-3 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHE 100.00	Exploring Chemical Engineering First-Year Seminar 1 Credits	The exploration of Chemical Engineering and available career opportunities.
CHE 199.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHE 210.00	Introduction to Material Balances 3 Credits	An integrated approach to the study of material balances and industrial chemical processes important in chemical engineering. The objective of this course is to present an introduction to chemical engineering calculations, e
CHE 210H	Introduction to Material Balances (Honors) 3 Credits	An integrated approach to the study of material balances and industrial chemical processes important in chemical engineering. The objective of this course is to present an introduction to chemical engineering calculations, e
CHE 220.00	Introduction to Chemical Engineering Thermodynamics 3 Credits	This is the introductory course in chemical engineering thermodynamics and is normally scheduled in the sophomore year. It places emphasis in the development of the theory of thermodynamics of pure fluids with applicatio
CHE 220H	Introduction to Chemical Engineering Thermodynamics (Honors) 3 Credits	This is the introductory course in chemical engineering thermodynamics and is normally scheduled in the sophomore year. It places emphasis in the development of the theory of thermodynamics of pure fluids with applicatio
CHE 230.00	Computational Tools for Chemical Engineering 1 Credits	This 1-credit course will cover the key computational tools needed by Chemical Engineering students. CH E 230 Computational Tools for Chemical Engineering (1) This 1-credit course will cover the key computational tools r
CHE 294.00	Research Project 1-12 Credits/Maximum of 12	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CHE 296.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CHE 296H	Individual Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CHE 297.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHE 299.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHE 300.00	Professional Development Seminar 1 Credits	Lectures and discussion by visiting engineers and faculty on chemical engineering, job selection, patents, licensing, ethics, and other professional problems. CH E 300 Professional Development Seminar (1) The course objec
CHE 320.00	Phase and Chemical Equilibria 3 Credits	The course covers the fundamentals of phase and chemical equilibrium with emphasis on vapor/liquid systems and their applications to separation processes. It is the second course in chemical engineering thermodynamics
CHE 330.00	Process Fluid Mechanics 3 Credits	This course introduces the principles of fluid mechanics that are of fundamental importance to chemical engineers. Students learn to perform scaling and dimensional analysis in physical systems. Student learn to apply micr
CHE 340.00	Introduction to Biomolecular Engineering 3 Credits	This course introduces students to the concepts and principles needed to apply chemical engineering principles to the design, modification, and analysis of biological systems for biotechnology applications. Students will lea
CHE 350.00	Process Heat Transfer 3 Credits	The objective of the course is to introduce to students heat transfer mechanisms in solids and fluids and their chemical process applications. At the conclusion of the course, the student should possess the ability to model s
CHE 360.00	Mathematical Modeling in Chemical Engineering 3 Credits	Mathematical model formulation for chemical and physical processes, including applications of ordinary differential equations and numerical methods. CH E 360 Mathematical Modeling in Chemical Engineering (3) This cours
CHE 396.00	Independent Studies 1-6 Credits/Maximum of 12	CHE 396 is for creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses. CHE 396 is an "Independent Studies" course.
CHE 397.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CHE 399.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHE 410.00	Mass Transfer Operations 3 Credits	The objective of this course is to present the principles of mass transfer and their application to separation and purification processes. The course develops rate expressions for mass transfer in multiphase, multicomponent s
CHE 412.00	CHE and the Environment 3 Credits	In this course students will apply chemical engineering principles to important environmental problems. These chemical engineering principles include: Material balances, Thermodynamics, phase and chemical equilibrium, tra
CHE 423.00	Chemical Energy Technology 3 Credits	This course provides an overview of current and prospective chemical energy storage and conversion technologies. CHE 423 Chemical Energy Technology (3) This course provides an overview of chemical energy storage an
CHE 430.00	Chemical Reaction Engineering 3 Credits	This course teaches the principles of reaction engineering and reactor design. It is one of the core subjects in the chemical engineering curriculum and it is normally scheduled in the senior year. Students learn how to apply s
CHE 432.00	Petroleum Processing 3 Credits	Transportation of people and goods in many parts of the world depend almost completely on petroleum fuels, such as gasoline, jet fuel, diesel fuel, and marine fuel. Apart from the fuels, materials that are necessary for operat
CHE 438.00	Bioprocess Engineering 3 Credits	Introduction to the biotechnology field including consideration of upstream and downstream processing of biochemicals.
CHE 439.00	Alternative Fuels from Biomass Sources 3 Credits	This course will examine technologies of bio-based sources for power generation and transportation, the effect on the environment, and the viability of the use of bio-based energy sources to mitigate energy needs and minin
CHE 442.00	Polymer Processing Technology 3 Credits	Basic principles of polymer melt processing are reviewed and subsequently applied to the most important industrial processing operations. MATSE 448 (CH E 442) Polymer Processing Technology (3) MATSE 448 involves bo
CHE 443.00	Introduction to Polymer Science 3 Credits	Introduction to synthesis, structure, characterization and processing of polymers. Single molecule properties, polymer solutions, glasses, crystals and blends. CH E 443 Introduction to Polymer Science (3) The objective of th
CHE 444.00	Chemical Game Theory 3 Credits	"Chemical Game Theory" (CGT), uses well-known, rigorous principles from Chemistry and Chemical Engineering to solve strategic decision problems that could be analyzed using Traditional Game Theory (TGT). In strategic
CHE 445.00	Bioremediation/Green Chemistry 3 Credits	Man has polluted his environment but biotechnology holds great promise for cleansing it and for synthesizing the chemicals that we all need in a modern society in a manner that limits generating new pollution. The course fo
CHE 446.00	Transport Phenomena 3 Credits	Fundamental treatment of mass, heat, and momentum transfer; emphasis on transport properties and mathematical models of chemical engineering transport processes. CHE 446 Transport Phenomena (3) This is an interme
CHE 449.00	Bioseparations 3 Credits	Analysis and design of separation processes for the purification of biological molecules. CH E 449 Bioseparations (3) This course introduces students to the principles and applications of separation processes used for the p

CHE 450.00	Process Dynamics and Control 3 Credits	Analysis of time-dependent variables in chemical process plants; reactor design and control; computer applications. CHE 450 Process Dynamics and Control (3) The course is an introduction to chemical process dynamics a
CHE 452.00	Chemical Process Safety 3 Credits	This course provides an overview of Process Safety in the Chemical Industry, focusing on the nature of chemical plant accidents. CHE 452 Chemical Process Safety (3) The course will provide an overview of Process Safety i
CHE 455.00	Drug Delivery, Pharmacokinetics, and Artificial Organs 3 Credits	CHE 455 is an elective course that examines the application of chemical engineering principles (thermodynamics, transport, and kinetics) to the analysis of a number of medically related phenomena and devices. Specific top
CHE 470.00	Design of Chemical Plants 3 Credits	The chemical engineering capstone design course introduces the principles of process design and economic evaluation utilizing various industry computer tools, with special emphasis on process simulators. The student will
CHE 480W	Chemical Engineering Laboratory 3 Credits	Data interpretation and correlation from student-operated experiments on pilot-plant equipment. Individual written and oral technical reports. CHE 480W Chemical Engineering Laboratory (3) This is the laboratory course in CI
CHE 494.00	Research Projects in Chemical Engineering 1-6 Credits/Maximum of 6	An original problem, including a search of the literature, experimental investigation, and preparation in formal thesis form.
CHE 494H	Research Projects in Chemical Engineering (Honors) 1-6 Credits/Maximum of 6	An original problem, including a search of the literature, experimental investigation, and preparation in formal thesis form. CH E 494H CH E 494H Research Projects in Chemical Engineering (1-6) Undergraduate research proj
CHE 496.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CHE 497.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHE 499.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHEM 1	Molecular Science 3 Credits	Selected concepts and topics designed to give non-science majors an appreciation for how chemistry impacts everyday life. Students who have received credit for CHEM 3, 101, 130, or 110 may not schedule this course. CH
CHEM 3	Molecular Science With Laboratory 3 Credits	CHEM 3 is a course that includes both lecture and laboratory. It is designed for students who want to gain a better appreciation of chemistry and how it applies to everyone's everyday life. The student is expected to have an
CHEM 5	Kitchen Chemistry 3 Credits	CHEM 5 Kitchen Chemistry (3) (GN)(BA) CHEM 5 focuses on an elementary discussion of the chemistry associated with foods and cooking. It incorporates lectures and videos, reading, problem-solving, and "edible"; home e
CHEM 20	Environmental Chemistry 3 Credits	Applications of chemistry to environmental problems, including air, water, thermal pollution; pesticides; drugs and birth control agents; food additives; etc. For non-chemistry majors; chemistry majors will not receive credit. C
CHEM 21	Environmental Chemistry Laboratory 1 Credits	Introduction of basic laboratory techniques and data analysis used in environmental chemistry. CHEM 021 CHEM 021 Environmental Chemistry Laboratory (1) This course will provide an introduction of basic laboratory techr
CHEM 101	Introductory Chemistry 2-3 Credits	Selected principles and applications of chemistry. Prior study of chemistry is not assumed. Students may take only one course for General Education credit from CHEM 101 or CHEM 110. CHEM 101 CHEM 101 Introductory
CHEM 106	Introductory and General Chemistry 5 Credits	Introductory chemistry and chemical principles for students who are required to take additional chemistry, e.g., CHEM 112, but are unprepared for CHEM 110. CHEM 106 Introductory and General Chemistry (5) (GN)(BA) This
CHEM 108	Problem Solving in Chemistry 1 Credits	Techniques, strategies, and skills for solving problems in general chemistry for students potentially at risk in CHEM 110. CHEM 108 CHEM 108 Problem Solving in Chemistry (1) The purpose of CHEM 108 is to facilitate succ
CHEM 109	A Research Experience in Chemistry 3 Credits	This introductory chemistry laboratory course is a research experience in chemistry. It is designed to ease students into the process and practice of chemical research. Students will be posed with a novel idea or known probl
CHEM 110	Chemical Principles I 3 Credits	CHEM 110 is the first semester of a two-semester, comprehensive general chemistry course which introduces students to the basic principles of chemistry with an emphasis on the relationships between the microscopic stru
CHEM 110H	Chemical Principles I - Honors 3 Credits	CHEM 110H is the first in a two-semester comprehensive course in general chemistry for majors in science, engineering, and related disciplines. Chemistry impacts virtually every area of our lives, from how our bodies work,
CHEM 111	Experimental Chemistry I 1 Credits	CHEM 111 is a one-credit introductory general chemistry laboratory course. It is designed to complement the lecture course CHEM 110. Students are introduced to laboratory safety and good experimental technique, how to
CHEM 112	Chemical Principles II 3 Credits	CHEM 112 builds upon the subject matter of CHEM 110, covering the following topics: reaction rates and chemical kinetics, nuclear applications, catalysis, gas phase and aqueous equilibrium, chemical thermodynamics, ent
CHEM 112H	Chemical Principles II - Honors 3 Credits	CHEM 112H uses the same text as CHEM 110H and builds upon the subject matter of that course. The course covers the following topics: introduction to organic reactions, polymers and their properties, chemical thermodyn
CHEM 113	Experimental Chemistry II 1 Credits	CHEM 113, Experimental Chemistry II, is the second introductory general chemistry laboratory course in the CHEM 111/113 sequence. CHEM 113 is meant to complement the lecture course, CHEM 112. The course builds o
CHEM 113B	Experimental Chemistry II--Bioscience 1 Credits	CHEM 113B, Experimental Chemistry II, is the second introductory general chemistry laboratory course in the CHEM 111/113 sequence. CHEM 113B is meant to complement the lecture course, CHEM 112, but using experir
CHEM 130	Introduction to General, Organic, and Biochemistry 3 Credits	This course is a one-semester, rigorous college level introductory Chemistry course covering the fundamental principles of general, organic, and biochemistry. One year of high school chemistry is strongly recommended, and
CHEM 197	Special Topics 1-9 Credits	No description
CHEM 197N	Special Topics - InterDomain 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is a GenEd course.
CHEM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHEM 202	Fundamentals of Organic Chemistry I 3 Credits	Introduction to organic chemistry, with emphasis on the properties of organic compounds of biochemical importance. Because of duplication of subject matter, students may not receive credit for both CHEM 202 and CHEM
CHEM 203	Fundamentals of Organic Chemistry II 3 Credits	Introduction to organic chemistry, with emphasis on the identification of organic compounds by characteristic chemical reactions and by spectroscopy. The course involves both lecture and laboratory. Because of duplicatior
CHEM 210	Organic Chemistry I 3 Credits	Bonding theories for organic molecules; stereochemistry and conformational analysis; reactions (and mechanisms) of alkyl halides, alkenes, alkynes, aromatics, and alcohols. CHEM 210 Organic Chemistry I (3) Organic chem
CHEM 210H	Organic Chemistry I - Honors 4 Credits	Principles and theories; nomenclature; chemistry of the functional groups; applications of spectroscopy. Because of duplication of material, students may not receive credit for both CHEM 210 and 202. CHEM 210H Organic
CHEM 212	Organic Chemistry II 3 Credits	Continuation of CHEM 210. Emphasis is placed on the role of organic reactions in biological chemistry. CHEM 212 CHEM 212 Organic Chemistry II (3) This course will continue to build upon the important concepts learned i
CHEM 212H	Organic Chemistry II - Honors 3 Credits	Continuation of CHEM 210(H). Emphasis is on the chemistry of carbonyl compounds, spectroscopic analysis and pericyclic reactions. CHEM 212H Organic Chemistry II - Honors (3) CHEM 212H is the second semester of a
CHEM 213	Laboratory in Organic Chemistry 2 Credits/Maximum of 2	Basic laboratory operations; synthesis and chemical or instrumental analysis. Because of duplication of subject matter, students may not receive credit for both CHEM 203 and CHEM 213. CHEM 213 CHEM 213 Laboratory
CHEM 213M	Laboratory in Organic Chemistry - Honors, Writing Intensive 2 Credits	Basic laboratory techniques learned in context via theme-based modules, spectral analysis, multi-step synthesis, and professional scientific writing. Because of similarity of subject matter, students may not receive credit for
CHEM 213W	Laboratory in Organic Chemistry - Writing Intensive 2 Credits	Basic laboratory techniques learned in context via theme-based modules, spectral analysis, multi-step synthesis, and professional scientific writing. Because of similarity of subject matter, students may not receive credit for
CHEM 227	Analytical Chemistry 4 Credits	The purpose of this course is to provide students with a rigorous and comprehensive exposure to the techniques and methods used in biotech, environmental, forensic, and pharmaceutical industrial and research laboratories
CHEM 233N	Chemistry and Literature 3 Credits	This pedagogically innovative course will be team taught by an instructor from the English department and one from the Chemistry department. Both instructors will be present in the classroom throughout the semester, provi
CHEM 294	Special Problems and Research 1-4 Credits/Maximum of 12	Designed for freshman or sophomore students who are prepared to undertake special problems and research by arrangement with a faculty member.
CHEM 294H	Special Problems and Research - Honors 1-4 Credits/Maximum of 12	Designed for freshman or sophomore students who are prepared to undertake special problems and research by arrangement with a faculty member.
CHEM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CHEM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CHEM 301	Environmental Chemistry and Analysis 3 Credits	Chemical principles, interpretation, and methods of analysis for groundwater, water supply, wastewater treatment, stream pollution. CHEM 301 CHEM 301 Environmental Chemistry and Analysis (3) The objective of the cours

CHEM 310	Introductory Inorganic Chemistry 3 Credits	Conceptual and descriptive aspects of inorganic chemistry, focusing on structures, bonding, and properties. CHEM 310 Introductory Inorganic Chemistry (3)CHEM 310 covers the structure, bonding, and properties of inorga
CHEM 316	The Professional Chemist 2 Credits	Industrial employment opportunities and challenges; graduate and professional school opportunities; tailoring the chemistry curriculum to career goals. CHEM 316 CHEM 316 The Professional Chemist (2) This third-year sem
CHEM 358	Literature, Conduct and Safety in the Chemical Sciences 3 Credits	CHEM 358 is designed to prepare a student majoring in chemistry to interact with the scientific community as a professional. The course will be divided into three major units. The first unit will focus on communicating scienti
CHEM 395	Chemistry Teacher Assistant Training 1-2 Credits/Maximum of 2	Instruction and practice in the role of the teaching assistant in the undergraduate chemistry laboratory.
CHEM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHEM 400	Chemical Literature 1 Credits	Instruction in use of the library and of the literature of chemistry. CHEM 400 Chemical Literature (1) CHEM 400 covers an orientation to use the library; sources of organic and inorganic synthesis information; use of relevant ir
CHEM 402	Environment Chemistry: Atmosphere 3 Credits	Environmental Chemistry is an upper-level elective chemistry class focusing on environmental issues and their intersection with chemistry. Specifically, the course will focus on the ways in which environmental processes can
CHEM 404	Environmental Chemistry: Water and Soil 3 Credits	Environmental Chemistry: Water and Soil is an upper-level elective chemistry class focusing on environmental issues and their intersection with chemistry. Specifically, the course will focus on the ways in which environmenta
CHEM 406	Nuclear and Radiochemistry 3 Credits	Theory of radioactive decay processes, nuclear properties and structure, nuclear reactions, interactions of radiation with matter, biological effects of radiation. CHEM 406 Nuclear and Radiochemistry (3) CHEM 406 provides a
CHEM 408	Computational Chemistry 3 Credits	Introduction to numerical and nonnumerical computer uses in physical science. CHEM 408 CHEM 408 Computational Chemistry (3) CHEM 408 introduces some of the many ways in which computers are used in modern che
CHEM 410	Inorganic Chemistry 3 Credits	Conceptual and descriptive aspects of nontransition elements, covering structural, thermodynamic, and kinetic features. CHEM 410 Inorganic Chemistry (3) CHEM 410 covers structure and bonding in inorganic chemistry, inc
CHEM 412	Transition Metal Chemistry 3 Credits	Structure and bonding of compounds containing transition metals. CHEM 412 Transition Metal Chemistry (3) CHEM 412 covers the chemistry of the transition metals, and in particular the d-block elements. Major areas of em
CHEM 413	Chemistry of the Elements 4 Credits	Theoretical and descriptive chemistry of the elements; laboratory synthesis and measurements in inorganic, coordination, and transition metal chemistry.
CHEM 423W	Chemical Spectroscopy 4 Credits	Modern methods and instruments of spectroscopy and their applications to problems of chemical structure and analysis. CHEM 423W Chemical Spectroscopy (4) This course reviews modern methods and instruments of sp
CHEM 425W	Chromatography and Electrochemistry 4 Credits	Gas, liquid, and other forms of chromatography; important techniques of electrochemistry.
CHEM 430	Structural Analysis of Organic Compounds 3 Credits	Spectroscopic methods as tools in gross and detailed structural analysis and interpretation within the framework of modern theory. CHEM 430 CHEM 430 Structural Analysis of Organic Compounds (3) This course is designe
CHEM 431W	Organic and Inorganic Preparations 4 Credits	Preparation, purification, and characterization of both organic and inorganic compounds by modern methods. CHEM 431W CHEM 431W Organic and Inorganic Preparations (3) CHEM 431W is a one-semester, writing-intens
CHEM 432	Organic Reaction Mechanisms 3 Credits	The study, evaluation, and discussion of the mechanisms of selected organic reactions.
CHEM 433	Industrial Medicinal Chemistry Lab 3 Credits	This course is designed to build upon synthetic organic chemistry lab skills in the context of medicinal chemistry, specifically drug development. Students will learn how the pharmaceutical industry approaches the design, sy
CHEM 440	Instrumental Analysis 3 Credits	This course presents analytical methods used in chemistry in a way that extends and complements the treatment in CHEM 227. Preliminary discussions will entail sample preparation for organic and inorganic samples, quant
CHEM 441	Instrumental Analysis Laboratory 1 Credits	This laboratory course presents analytical methods used in the chemistry field in a way that extends and compliments the treatment in CHEM 440. Techniques addressed will cover the areas of separation, optical spectroscop
CHEM 446	X-Ray Crystallography 3 Credits	Theoretical and practical aspects of structure determination using x-ray diffraction, from crystal growth to structure solution. CHEM 446 CHEM 446 X-Ray Crystallography (3) CHEM 446 introduces the student to the basic pr
CHEM 448	Surface Chemistry 3 Credits	Surface chemistry, emphasizing the physical and chemical aspects of surfaces important for applications in colloids, catalysis, microelectronics and biocompatibility. CHEM 448 Surface Chemistry (3) introduces the student t
CHEM 450	Physical Chemistry - Thermodynamics 3 Credits	Introduction to physical chemistry with primary emphasis on chemical thermodynamics and its molecular interpretation.(Graduate credit not allowed for students majoring in Biochemistry and Molecular Biology, Chemistry, or
CHEM 451	Experimental Physical Chemistry I 1 Credits	CHEM 451 is a laboratory course designed to illustrate several of the principles of chemical thermodynamics presented in CHEM 450 and to demonstrate proper treatment and presentation of quantitative data. The experime
CHEM 452	Physical Chemistry - Quantum Chemistry 3 Credits	Introduction to physical chemistry with primary emphasis on molecular structure, spectroscopy, and chemical kinetics. (Graduate credit not allowed for students majoring in Biochemistry and Molecular Biology, Chemistry, or
CHEM 453	Experimental Physical Chemistry II 1 Credits	CHEM 453 is a laboratory course designed to illustrate several of the principles of chemical kinetics and quantum mechanics presented in CHEM 452, and to demonstrate proper treatment and presentation of quantitative da
CHEM 457	Experimental Physical Chemistry 1-2 Credits/Maximum of 2	Laboratory experiments designed to illustrate the principles of physical chemistry and teach techniques of error analysis and the presentation of quantitative data. (Graduate credit not allowed for students majoring in Bioche
CHEM 459W	Advanced Experimental Physical Chemistry 4 Credits	Laboratory experiments and projects for students interested in advanced study in physical chemistry. CHEM 459W Advanced Experimental Physical Chemistry (4) CHEM 459W Advanced Experimental Physical Chemistry is
CHEM 464	Chemical Kinetics and Dynamics 3 Credits	Introduction to chemical kinetics and molecular dynamics. CHEM 464 CHEM 464 Chemical Kinetics and Dynamics (3) CHEM 464 is a one-semester course that introduces students to chemical kinetics and molecular dynam
CHEM 466	Molecular Thermodynamics 3 Credits	Introduction to physical chemistry with a primary emphasis on the statistical and molecular interpretation of thermodynamics. CHEM 466 CHEM 466 Molecular Thermodynamics (3) CHEM 466 is a physical chemistry course
CHEM 468	Molecular Spectroscopy 3 Credits	It is said that there are more than nine million organic chemical compounds. If you add to this list, inorganic complexes, composite materials such as alloys, minerals, and intermediate species like radicals and transition state
CHEM 472	General Biochemistry I 3 Credits	Basic structure and function of cellular components; principles of enzyme kinetics and regulation. CHEM 472 General Biochemistry I (3) CHEM 472 will serve as an introductory course in biochemistry. The course will begin w
CHEM 476	Biological Chemistry 3 Credits	Fundamentals of Biochemistry for Chemists. Students cannot receive credit for both CHEM 476 and BMB 401. CHEM 476 Biological Chemistry (3) This course is designed to be an introduction to biological chemistry from a
CHEM 480	Chemistry and Properties of Polymers 3 Credits	This course will be an introduction to the chemistry and properties of polymers. Topics will include in-depth focus on polymerization mechanisms and kinetics (radical, anionic, cationic; ring opening polymerization, coordinati
CHEM 491	Instructional Practice 1-2 Credits/Maximum of 3	CHEM 491 Instructional Practice (1-2). Students will participate on an instructional team in the teaching of an undergraduate chemistry laboratory or lecture course. Students in CHEM 491 will gain experience in science edu
CHEM 494	Chemical Research 1-10 Credits/Maximum of 20	Experimental investigation of an original research problem. Preparation of a formal thesis is optional. (Credit not allowed for graduate students in Biochemistry, Chemistry or Chemical Engineering.)
CHEM 494H	Chemical Research 1-10 Credits/Maximum of 20	Experimental investigation of an original research problem. Preparation of a formal thesis is optional. (Credit not allowed for graduate students in Biochemistry, Chemistry or Chemical Engineering.)
CHEM 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CHEM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CHEM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHEM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMAS 258N	Introduction to Child Maltreatment and Advocacy Studies 3 Credits	Introduction to the multidisciplinary field of child maltreatment. CMAS (HD FS) 258 Introduction to Child Maltreatment and Advocacy Studies (3) This course will focus on the identification, investigation, service, advocacy, pr
CMAS 465	Child Maltreatment: Prevention and Treatment 3 Credits	Advanced examination in approaches for preventing child maltreatment and treating its consequences. HD FS (CMAS) 465 Child Maltreatment: Prevention and Treatment (3) Child maltreatment, including physical abuse, sex
CMAS 466	Systems and Community Responses 3 Credits	An exploration of the multidisciplinary response to child maltreatment. CMAS 466 / NURS 466 Systems and Community Responses (3) An exploration of the multidisciplinary response to child maltreatment. The roles, respon
CMAS 493	Child Maltreatment and Advocacy Studies: Capstone Experience 1-3 Credits/Maximum of 3	This course serves as the capstone experience for students enrolled in the Child Maltreatment and Advocacy Studies minor.
CHNS 1	Level One Chinese A 4 Credits	Introductory study of Chinese language, with audio-lingual practice of Mandarin Chinese and attention to structure and the writing system.
CHNS 2	Level One Chinese B 4 Credits	Continued audio-lingual practice of Mandarin Chinese, further study of structure, practice in reading and writing Chinese.
CHNS 3	Level Two Chinese A 4 Credits	Continued audio-lingual practice of Mandarin Chinese, more extensive practice in reading and writing; study of Chinese culture.
CHNS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHNS 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHNS 110	Level Two Chinese B 4 Credits	Readings in selected modern Chinese literature (short stories, plays, essays, poems) and other texts; practice in conversation and simple composition. CHNS 110 Conversation, Reading, and Composition (4)(IL) (BA) This co

CHNS 120	Introduction to Chinese Literature and Culture 3 Credits	This course provides an introduction to Chinese cultural production from ancient times to the postmodern era, with an emphasis on literature. In its more recent segments, the course will include film as well as considerations
CHNS 121N	Chinese Film and New Media 3 Credits	Survey of Chinese film and new media in the twentieth century and beyond, with attention to changing cultural settings. Taught in English. CHNS 121N Chinese Film and New Media (3) (GH;GA;IL) (BA) This course meets the
CHNS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHNS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHNS 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CHNS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CHNS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHNS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHNS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHNS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CHNS 401	Level Three Chinese A 4 Credits	Emphasis on oral proficiency through discussions of aspects of contemporary Chinese culture. CHNS 401 Advanced Conversation (4) (IL) (BA) This course meets the Bachelor of Arts degree requirements.This course aims to
CHNS 402	Level Three Chinese B 4 Credits	Readings in representative works of traditional and modern literature; practice in composition; study of aspects of Chinese culture.
CHNS 403W	Level Four Chinese A 4 Credits	Continuation of CHNS 402. Aims to improve students' proficiency in all four language skills, with a special emphasis on writing. CHNS 403W Level Four Chinese A (4) This is a four credit course designed for those who have
CHNS 404	Level Four Chinese B 4 Credits	Continutation of CHNS 403W. Aims to improve students' proficiency in all four language skills through content-based language learning. CHNS 404 Level Four Chinese B (4) This is a four credit course designed for those wh
CHNS 410	Chinese Through Film 3 Credits	This course is designed for students who finish Level Two Chinese or higher and aims to help them develop Chinese proficiency through movies. CHNS 410 Chinese Through Film (3) (IL)(BA) This course meets the Bachelor
CHNS 412	Business Chinese 3 Credits	This is a three-credit course designed for those who have completed Level Two Chinese or the equivalent. Business knowledge is presented as a means to facilitate language learning, while the content-based materials enha
CHNS 414	Chinese Language, Culture and Society 3 Credits/Maximum of 3	The study of Chinese language and culture and a perspective on the way of life in contemporary Chinese society. Through this course, the students are introduced to a cognitive approach to the study of Chinese language an
CHNS 415	China Beyond China 3 Credits	Study of modern and contemporary Chinese culture in its diversity and its intercultural contexts. CHNS 415 China Beyond China (3) (IL) In order to begin to understand Chinese culture, we cannot treat it as a monolithic, unifi
CHNS 416	Gender and Sexuality in China 3 Credits	Study of gender roles and the imaginary of sexuality in the literary, filmic, and artistic production of modern China. CHNS 416 Gender and Sexuality in China (3) (IL) This course explores gender roles and the imaginary of sexu
CHNS 417	The Warrior, the Courtesan and the Ghost in Classical Chinese Novels 3 Credits	This course provides an introduction to major classical Chinese novels by focusing on three character types: the warrior, the courtesan, and the ghost. CHNS 423 417 The Warrior, the Courtesan and the Ghost in Classical Ch
CHNS 418	Confucius and the Great Books of China 3 Credits	This course familiarizes students with the critical texts and intellectual cultures of Warring States and early imperial China. CHNS 418 / ASIA 418 / HIST 482 Confucius and the Great Books of China (3) This course exposes st
CHNS 419	The Chinese Rhetorical Tradition 3 Credits/Maximum of 6	Study of the rhetorical works in ancient China as well as multiple facets of modern Chinese rhetoric. CHNS 419 The Chinese Rhetorical Tradition (3 per semester/maximum of 6) (IL)(BA) This course meets the Bachelor of Arts
CHNS 452	Contemporary China: Culture and Trends 3 Credits/Maximum of 6	Survey of aspects of the contemporary Chinese-speaking world. Includes readings from Chinese newspapers, magazines, and fiction. Topics may vary each semester. CHNS 452 Contemporary China: Culture and Trends (3
CHNS 453	Chinese Film 3 Credits/Maximum of 6	Selected films and directors representing various aspects of Chinese culture and cinema. Topics may vary each semester. Taught in Chinese. CHNS 453 Chinese Film (3) (IL) BA - This course meets the Bachelor of Arts deg
CHNS 454	Introduction to Classical Chinese 3 Credits/Maximum of 6	Basic patterns and structures of Classical Chinese to the first millennium B.C. to the 19th century. CHNS 454 Introduction to Classical Chinese (3) (IL) BA - This course meets the Bachelor of Arts degree requirements.This co
CHNS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CHNS 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CHNS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CHNS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CHNS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CIVCM 211N	Foundations: Civic and Community Engagement 3 Credits	Through readings, discussion, deliberation, listening, and individual as well as collaborative action, this course gives students the opportunity to learn about and practice theories and habits of civic and community engageme
CIVCM 494	Research Topics 1-3 Credits/Maximum of 3	Supervised student activities on research projects identified on an individual basis.
CIVCM 495	CIVCM Internship 3-6 Credits	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CE 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CE 100S	Topics and Contemporary Issues in Civil and Environmental Engineering: First-Year 1 Credits	First-Year Seminar exploring a specific topic or contemporary issue in civil and environmental engineering. CE 100S Topics and Contemporary Issues in Civil and Environmental Engineering: First-Year Seminar (1) (FYS)The fir
CE 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CE 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CE 209	Fundamentals of Surveying 2 Credits	Fundamental surveying measurements, traverse computations, coordinate geometry, mapping, CAD applications. Intended for architectural engineering students. (The lecture will be taught concurrently with C E 211.)
CE 254	Personal & Occupational Safety 3 Credits	Students will learn about principles of safety in work and personal settings. C E 254 Personal & Occupational Safety (3) (GHA; US) This is a 3 credit course designed for students who want an understanding of safety, practic
CE 271	Water and Wastewater Transport Systems 3 Credits	Water, wastewater quantities; water storage; design of water distribution and sewerage systems; pumping stations; introduction to water-wastewater treatment processes.
CE 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CE 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CE 310	Surveying 3 Credits	Fundamental surveying measurements, traverse computations, coordinate geometry, mapping, GPS and GIS, circular and parabolic curves, earthwork, boundary surveys, CAD applications. C E 310 Surveying (3) This is an i
CE 321	Highway Engineering 3 Credits	Highway engineering principles, vehicle and driver characteristics; geometric and pavement design; highway drainage; traffic engineering, capacity analysis, and signal timing. C E 321 Highway Engineering (3) This course p
CE 332	Professionalism, Economics & Construction Project Delivery 3 Credits	Introduction to engineering management process; economic analysis; pricing; contract documents; estimating; ethics; professional practice and engineering economy. C E 332 C E 332 Project Development (3) The first five
CE 333W	Construction Management I 3 Credits	Components of a construction organization, managerial terminology and documents, labor laws and relations, insurance and safety. C E 333W C E 333W Construction Management I (3) The object of this course is to have a
CE 335	Engineering Mechanics of Soils 3 Credits	Soil compositions, classification, subsurface exploration, ground water flow, stress analysis, compaction, soil behavior, bearing capacity, lateral earth pressure, slope stability. C E 335 C E 335 Engineering Mechanics of Soils
CE 336	Materials Science for Civil Engineers 3 Credits	C E 336 Materials Science for Civil Engineers (3) This course introduces engineering students to the structure, properties and behavior of construction materials, providing the bridge between engineering mechanics and engi

CE 337	Civil Engineering Materials Laboratory 1 Credits	Laboratory investigating the physical and mechanical properties of civil engineering materials; soils, aggregates, concrete; steel; wood; and polymers. C E 337 C E 337 Civil Engineering Materials Laboratory (1) The understar
CE 340	Structural Analysis 3 Credits	Analysis of statically determinate and indeterminate trusses, beams, and frames; reactions, axial forces, shears, moments, deflections. Introduction to influence lines. The course includes an introduction to structural systems
CE 341	Design of Concrete Structures 3 Credits	Design of reinforced concrete beams, slabs, and columns, with emphasis on ultimate-strength methods; prestressed concrete; building and bridge applications. C E 341 Design of Concrete Structures (3) This course provide
CE 342	Design of Steel Structures 3 Credits	This is a first course in the design of steel structures intended to develop fundamental abilities to evaluate and design steel tension members, beams, columns, beam-columns, composite beams, and connections. The discus
CE 352	Construction Safety and Risk Management 3 Credits	This course introduces construction safety practices and management in civil infrastructure projects. It also covers the standards, policies, and procedures of the Occupational Safety and Health Administration (OSHA) as rela
CE 360	Fluid Mechanics 3 Credits	Mechanics of fluids; flow in conduits and around bodies, friction and energy loss, fluid measurements. C E 360 Fluid Mechanics (3) The course objective is to provide students with the fundamental physical and analytical pri
CE 370	Introduction to Environmental Engineering 3 Credits	Nature and scope of environmental issues; air, water, land impacts; fundamentals and processes of pollution control. CE 370 Introduction to Environmental Engineering (3) The objectives of this course are to introduce scienc
CE 371	Water and Wastewater Treatment 3 Credits	Water treatment; water storage; design of water distribution and wastewater systems; pumping stations. CE 371 Water and Wastewater Treatment (3)This course includes engineering design of water and wastewater treatme
CE 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CE 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CE 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CE 402	Computing Methods for Civil and Environmental Engineering 3 Credits	This course will cover essential computing methods, implementations, and applications in civil and environmental engineering. Computing is essential for the civil and environmental engineering profession. It is used in many
CE 403	Energy Use, Climate Change, and Our Engineered Infrastructure 3 Credits	Massive changes to our personal consumption patterns and civil infrastructure systems are needed to decrease CO2 emissions and minimize the impacts of climate change. In this course we will quantify energy use; study h
CE 410	Sustainable Residential Subdivision Design 3 Credits	C E 410 provides students with a working knowledge of the residential land development design process, including conservation and green design approaches, site assessment, grading and earthwork, utility design and layo
CE 411	Residential Construction Design Project 1 Credits	Interdisciplinary teams will develop a complete design and investment package for a real life new residential or real estate development.
CE 421W	Transportation Design 3 Credits	Design of streets and highway facilities; emphasis on geometric elements, intersections and interchanges, roadway drainage, and pavement design. C E 421W C E 421W Transportation Design (3)This course provides advanc
CE 422	Transportation Planning 3 Credits	C E 422 Transportation Planning (3) In this course, students acquire basic knowledge on the history and recent developments in transportation planning problems and quantitative methods. They will develop an understandin
CE 423	Traffic Operations 4 Credits	This course focuses on the concepts and techniques essential for the practice of traffic engineering. The content includes topics such as use of traffic control devices, field studies for traffic data collection, traffic signal warra
CE 424	Project Info. Modeling 3 Credits/Maximum of 3	Project Information Modeling is the process of constructing a 3D digital model of a project with attached information. Project Information Modeling (PIM) is an integrated process built on coordinated, reliable information abou
CE 432	Construction Project Management 3 Credits	Fundamentals of project management, construction scheduling using the CPM technique, construction project preplanning, and control of quality, safety, and costs. C E 432 C E 432 Construction Project Management (3) Th
CE 434	Geotechnical Engineering Design 3 Credits	This is an advanced design course in geotechnical engineering, offered to undergraduate senior and graduate students in civil engineering. This course covers fundamental engineering geology, subsurface exploration includi
CE 435	Foundation Engineering 3 Credits	C E 435 provides students with a working knowledge of the state-of-practice of foundation engineering, covering bearing capacity, settlement, and structural design of shallow foundations; lateral earth pressure; design of ret
CE 436	Construction Engineering Materials 3 Credits	C E 436 Construction Engineering Materials (3) The course provides students with a working knowledge of the safe design, production and application of quality construction materials unique to civil engineering. The course
CE 437	Engineering Materials for Sustainability 3 Credits	Environmental impact of materials; life-cycle assessment; material selection to optimize performance; design, evaluation, and production of green construction materials.
CE 438W	Construction Engineering Capstone Design 3 Credits	Construction project integrating geotechnical reports; materials specifications; quality control; equipment; estimation; scheduling; design details: excavations, foundations, retaining walls, formwork, pavements. C E 438W C
CE 439W	Geotechnical and Materials Engineering Design Capstone 3 Credits	Subsurface site evaluation; integrated design of retaining walls, foundations, pavements, and materials for airports, highways, dams, or other facilities.
CE 441	Structural Design of Foundations 3 Credits	Design of concentrically and eccentrically loaded square, rectangular, and combined footings; analysis and design of mat foundations; retaining walls; piles caps; flexible retaining design, and caissons. C E 441 Structural De
CE 445	Advanced Structural Analysis 3 Credits	Analysis of trusses and frame stiffness matrix method of analysis. Analysis of indeterminate beams, trusses, and frames using classical methods. C E 445 C E 445 Advanced Structural Analysis (3) The course is an advanced
CE 447	Structural Analysis by Matrix Methods 3 Credits	Analysis of truss and frame structures using flexibility and stiffness methods of matrix analysis. Computer applications.
CE 448W	Structural Design Capstone 3 Credits	The objectives of the course are for students to develop an understanding of advanced structural engineering design issues in a capstone context that will merge knowledge gained in prerequisite structural design and analys
CE 449	Advanced Structural Design 3 Credits	Special systems, frames and bracing in steel, wood and reinforced or precast concrete. Introduction to composite construction. C E 449 C E 449 Advanced Structural Design (3) This course provides students with an unders
CE 454	Safety 3 Credits	This course will focus on safety issues as they relate to OSHA.
CE 455	Construction Cost Estimating 3 Credits	This course focuses on introducing the fundamental principles of detailed cost estimating and bidding in civil infrastructure projects, including classifying work in accordance with specifications standards, extracting quantity
CE 456	Planning and Scheduling 3 Credits	Theory and practice used in planning and scheduling projects; defining task and resources, creating logic diagrams, and monitoring the projects. C E 456 C E 456 Planning & Scheduling (3) "Planning and Scheduling" encom
CE 457	Construction Equipment and Methods 3 Credits	Introduction to major construction equipment along with selected construction methods for civil infrastructure projects. This includes understanding construction equipment economics, selection of appropriate equipment ba
CE 458	Construction Management II 3 Credits	Procedures in construction organization including procurement, ethics, field supervision, legal and managerial problems, personnel, cost accounting, and construction business practices. C E 458 C E 458 Construction Mana
CE 461	Water-resource Engineering 3 Credits	Qualitative and quantitative description of the hydrologic cycle, flood and drought frequency analysis, climate and land use change impacts, risk analysis and uncertainty, water resource management at regional, national and
CE 462	Open Channel Hydraulics 3 Credits	Free surface flow in rivers, canals, steep chutes, stilling basins, and transitions. C E 462 Open Channel Hydraulics (3) This is an advanced senior level course dealing with steady gradually varied flow. The laws of conservatio
CE 465W	Water Resources Capstone Course 3 Credits	Hydraulic design of river structures and open channels including supercritical and spatially varied flow; hydrologic/hydraulic computer modeling; design project. C E 465W C E 465W Water Resources Capstone Course (3) Th
CE 472W	Environmental Engineering Capstone Design 3 Credits	Principles and design of unit operations for water; domestic and industrial wastewater treatment; equipment selection and application. C E 471 C E 472W Environmental Engineering Capstone Design (3)This course will integ
CE 473	Ecological Design of Regenerative Aquatic Systems 3 Credits	This course begins with an introduction to natural wetlands, and then extends those fundamental ecological principles to the design of constructed wetlands for wastewater and mine water treatment. In the second half of the
CE 475	Water Quality Chemistry 4 Credits	C E 475 Water Quality Chemistry (4) Water Quality Chemistry is focused on both theoretical aspects of water chemistry and applied aspects of engineering practice. The course will cover a wide range of fundamental chemica
CE 476	Solid and Hazardous Wastes 3 Credits	With industrialization, humans have produced a variety of solid and hazardous wastes that have negatively impacted ecosystems and human health around the world. This course covers three main topics: 1) municipal solid
CE 479	Environmental Microbiology for Engineers 3 Credits	Environmental Microbiology for Engineers is comprised of three main sections: (1) the fundamentals of microbial structure, function, nutrition, and growth for students with no prior formal instruction in microbiology; (2) microb
CE 488C	Capstone Project - Construction 4 Credits/Maximum of 4	This course consists of a project either selected by the students with approval or assigned by the instructor. C E 488C Capstone Project - Construction (4) This course integrates the structural design and construction skills t
CE 488D	Capstone Project - Structural Design 4 Credits/Maximum of 4	This course consists of a structural design project either selected by the students with approval or assigned by the instructor. C E 488D Capstone Project - Structural Design (4) This course integrates the structural design an
CE 494	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
CE 494H	Honors Senior Thesis 1-6 Credits	Investigation of an original project in the area of Civil Engineering. C E 494H C E 494H Honors Senior Thesis (1-6) Investigation of an original project in the area of Civil Engineering. The thesis topic must be approved by the
CE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CET 308	Construction Methods and Materials 3 Credits	The study of the methods and materials used in the construction industry.
CET 342	Civil Engineering Materials - Concrete and Bituminous 3 Credits	Properties and tests for aggregates, portland cement, fresh and hardened concrete, concrete mix designs. Bituminous Materials: properties, mixtures and tests.
CET 343	Soils Mechanics 3 Credits	This course presents the fundamentals of engineering soil mechanics related to civil engineering. CET 343 Soil Mechanics (3) This course presents the fundamentals of engineering soil mechanics related to civil engineering.
CET 361	Fluid Flow 3 Credits	Fluid flow theory; hydrostatics; dimensional analysis and similitude; pipe flow; flow measurement; open channels; flow forces; fluid machinery.
CET 430	Structural Analysis 3 Credits	Analysis of determinate structures; use of influence lines; deflection of structures; classical methods of analysis of statically indeterminate structures.
CET 431	Structural Design-Steel 3 Credits	Design of steel beams, columns, truss members, decks, bar joists and selected connections.
CET 432	Structural Design-Reinforced Concrete 3 Credits	Design of reinforced concrete beams, columns, slabs, and selected framing systems for bending and shear. Introduction to formwork design.

CET 434	Foundations 3 Credits	Analysis and design of footings, piling, retaining walls; consideration of contruction problems involving soils and foundations of structures.
CET 435	Construction Estimating 3 Credits	Methods and techniques used in estimating construction cost; practice in takeoffs, costing and final bid preparation; microcomputer applications/class projects.
CAMS 1	Greek and Roman Literature 3 Credits	CAMS 1 Greek and Roman Literature (3) (GH)(BA) This course surveys the traditions of classical literature exemplified by the masterworks of Greek and Roman authors. The choice of readings (in English translation) may vary
CAMS 4	Jewish and Christian Foundations 3 Credits	This course seeks to help students better understand the Bible and appreciate its role as an authoritative collection of sacred texts for Jews and Christians. The Bible is a difficult book, one that is demanding on many levels.
CAMS 5	Ancient Mediterranean Civilizations 3 Credits	Survey of the history and cultures of ancient Mediterranean civilizations in Mesopotamia, Egypt, Syro-Levant, Anatolia, Greece, and Rome. CAMS (HIST) 5 Ancient Mediterranean Civilizations (3) (GH;IL) This course provides a
CAMS 10	Mesopotamian Civilization 3 Credits	This course will introduce students to the history of the civilization and the culture of Ancient Mesopotamia (Modern Iraq), which contributed to shape both the Western world and the modern Middle East. Ancient Mesopotam
CAMS 10U	MESOPOTAMIAN CIVILIZATION 3 Credits/Maximum of 3	This course will introduce students to the history of the civilization and the culture of Ancient Mesopotamia (Modern Iraq), which contributed to shape both the Western world and the modern Middle East. Ancient Mesopotam
CAMS 12N	Lands of the Bible 3 Credits	Utilizing the textual and archaeological evidence, this course introduces students to the lands, cultures, and peoples associated with the Hebrew Bible, New Testament, and Qur'an. Geographically, the lands of the Bible enco
CAMS 15	Wonders of the Ancient World 3 Credits	Overview of the ancient world by focusing on the famed "Seven Wonders" and similar achievements from 3000 B.C.E.-1st Century C.E. The core of this course is comprised of the Seven Wonders of the Ancient World: the Ge
CAMS 16	How to Live 3 Credits	Philosophy considers how best to live. This is valuable, since there is a lot that is uncertain. Should one mostly eliminate superstition and fear and practice mental tranquility? Or control bodily desires and practice endurance
CAMS 20	Egyptian Civilization 3 Credits	This course will introduce the student to a number of basic problems inherent in the advent and nature of complex society which resonate in all world cultures, and for which Egypt can be used as the most revealing case stu
CAMS 25	Greek Civilization 3 Credits	This course explores the cultural, political, and historical identity of the ancient Greeks who they were, what they achieved, how they organized their society, and what they believed. This is not a history of ancient Greece, but

CAMS 25U	Greek Civilization - Honors 3 Credits	This course explores the cultural, political, and historical identity of the ancient Greeks-who they were, what they achieved, how they organized their society, and what they believed. This is not a history of ancient Greece, but
CAMS 33	Roman Civilization 3 Credits	CAMS 033 Roman Civilization (3) (GH;IL) (BA) This course meets the Bachelor of Arts degree requirements. Roman Civilization (CAMS 033) provides a comprehensive survey of an ancient society whose impact continues to b
CAMS 44	Myth in Egypt and the Near East 3 Credits	This course provides a survey of the major Egyptian and Ancient Near Eastern mythological traditions in their cultural and historical context. The course also addresses the theoretical issues involved in the study of myth, and
CAMS 44H	Myth in Egypt and the Near East 3 Credits	This course provides a survey of the major Egyptian and Ancient Near Eastern mythological traditions in their cultural and historical context. The course also addresses the theoretical issues involved in the study of myth, and
CAMS 45	Classical Mythology 3 Credits	CAMS 45 Classical Mythology (3) (GH;IL)(BA) CAMS 45 introduces the myths of ancient Greece and Rome as they are represented in the canonical works of Greek and Latin literature and art. Students become conversant in
CAMS 45H	Classical Mythology 3 Credits	CAMS 45H Classical Mythology (3) (GH)(H)(IL)(BA) CAMS 45H introduces the myths of ancient Greece and Rome as they are represented in the canonical works of Greek and Latin literature and art. Students become convers
CAMS 50	Words: Classical Sources of English Vocabulary 3 Credits	CAMS 50 Words: Classical Sources of English Vocabulary (3) (GH)(BA) offers an introduction to the history, structure, and meaning of modern English words that are formed from Latin and Greek elements. Many English langu
CAMS 70	Prophecy in the Bible and the Ancient Near East 3 Credits	This course will introduce students to the prophetic traditions of the Bible and the Ancient Near East. The course will explore the development of prophetic circles in the ancient Near East (including Egypt, Syria-Palestine, and
CAMS 83Y	First-Year Seminar in Classics and Ancient Mediterranean Studies 3 Credits	Critical approach to the study of ancient Mediterranean languages, literatures, histories, and material cultures. CAMS 83Y First-Year Seminar in Classics and Ancient Mediterranean Studies (3 credits) (GH;FYS;IL;Y) meets the
CAMS 90	Jerusalem: Past, Present, and Future 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
CAMS 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAMS 100	Ancient Greece 3 Credits	The Greek world from the earliest Aegean cultures to the death of Alexander the Great and the beginnings of Hellenistic civilization. CAMS 100 / HIST 100 Ancient Greece (3) (GH;IL)(BA) This course meets the Bachelor of Arts

CAMS 101	The Roman Republic and Empire 3 Credits	History of the Roman Republic and Empire from the origins of Rome to the disintegration of the Empire. CAMS 101 / HIST 101 The Roman Republic and Empire (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree r
CAMS 102	Ancient Israel 3 Credits	Ancient Israel names the land and people of the Hebrew Bible (Old Testament), and it provides important background for the Jewish, Christian, and Muslim traditions. Yet, ancient Israel remains difficult to approach historically
CAMS 104	Ancient Egypt 3 Credits	This course will track the history of Egypt, the first nation state in the world, covering a time span of over 3,000 years. The investigation of the history will focus primarily on the major players (i.e. the pharaohs themselves) anc
CAMS 105	History of the Ancient Near East 3 Credits	History of the Ancient Near East from the end of the Neolithic to the Hellenistic period. CAMS 105 History of the Ancient Near East (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. The objective of
CAMS 109Y	Writing Systems of the World 3 Credits	This course aims at providing students with a thorough understanding of the role played by writing systems in the development of civilizations and the articulation of polities. The emphasis will be placed on historical, cultural,
CAMS 110	Hebrew Bible: Old Testament 3 Credits	This course offers an academic introduction to the Hebrew Bible (Old Testament). The course will move through the Hebrew Bible in a roughly historical sequence oriented toward the order of the prose books of the Hebrew E
CAMS 111	Early Judaism 3 Credits	Early Judaism will introduce students to the history of Judaism as reflected in Jewish literature from the period of the Babylonian exile (587/6 BCE) to the closure of the Babylonian Talmud (ca. 600 CE). This course will analyze
CAMS 113	Jewish Myths and Legends 3 Credits	Comparative study of diverse interpretations of stories from the Bible in Judaism and Christianity. CMLIT 113 / JST 113 / CAMS 113 / RLST 113 Myths and Legends of the Jews (3) (GH;IL) The impact of the Bible on Western
CAMS 115	Literature of the Ancient Near East 3 Credits/Maximum of 3	Reading and study of literary works from the Ancient Near East, especially from Mesopotamia and Ancient Egypt. This course is designed to provide the student with both a basic knowledge of Ancient Near Eastern literature

CAMS 120	New Testament 3 Credits	CAMS 120 / JST 120 / RLST 120 New Testament (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. This course provides an introduction to the collection of early Christian writings that make up the Ne
CAMS 121	Jesus the Jew 3 Credits	Although Jesus of Nazareth is the object of Christian devotion, he was not a Christian himself, but a pious Jew. What can be known about the historical figure of Jesus the Palestinian Jew? How would his teachings and actio
CAMS 122	Apocalypse and Beyond 3 Credits	Apocalypse and Beyond is a topic (and title) meant to suggest that apocalyptic imagination about the end of the world, first begun in the Ancient Near East with certain Jewish and Christian writings, is constantly re-envisione
CAMS 123	History of God: Origins of Monotheism 3 Credits	This course examines the early history of God; that is, the concept of the divine as a single supreme being. In particular, it focuses on the origins of monotheism and the development of its three major traditions in the Near Ea
CAMS 124	Early and Medieval Christianity 3 Credits	This course provides an introduction to the history of Christianity. It traces, specifically, the development of the Christian movement from its beginnings as a small Jewish sect in Jerusalem to its unlikely emergence as the relig
CAMS 130	The Ancient World in Film 3 Credits	CAMS 130 examines the ancient Mediterranean world as it is represented in the cinema. Students will view, interpret, and critically evaluate twelve popular and/or critically acclaimed films that illustrate the narratives and ther
CAMS 140	Classical Archaeology--Ancient Greece 3 Credits	CAMS 140: Greek Archaeology (3) (GH;IL) This course meets the Bachelor of Arts degree requirements. CAMS 140 investigates the culture and society of the ancient Greeks based on the material remains from the Middle and
CAMS 142	Sport and Spectacle in the Ancient Mediterranean World 3 Credits	CAMS 142 Sport and Spectacle in the Ancient Mediterranean World (3) (GH;IL) (BA). This course presents a comparative social history of sport in the ancient Mediterranean world. Of central interest are the culturally distinctiv
CAMS 150	Classical Archaeology--Ancient Rome 3 Credits	CAMS 150 Classical Archaeology-Ancient Rome (3) (GH;IL) (BA) surveys the development of Roman civilization in relation to the relevant archaeological discoveries and meets the Bachelor of Arts degree requirements. CAMS
CAMS 151	Introductory Biblical Hebrew 3 Credits	Fundamentals of Biblical Hebrew grammar, syntax, and vocabulary. J ST (CAMS/HEBR) 151 Introductory Biblical Hebrew (3) The aim of CAMS/J ST/HEBR 151 is to introduce students to the fundamentals of Biblical Hebrew
CAMS 152	Intermediate Biblical Hebrew 3 Credits	Intermediate study of Biblical Hebrew grammar, syntax, and vocabulary. CAMS (JST/HEBR) 152 Intermediate Biblical Hebrew (3)(BA) This course meets the Bachelor of Arts degree requirements. CAMS/JST/HEBR 152 contin
CAMS 153	Dead Sea Scrolls 3 Credits	The discovery of the Dead Sea Scrolls was one the most important archeological discoveries of the 20th century. This collection of over 900 scrolls found in caves by the Dead Sea includes the oldest manuscripts of the Hebr

CAMS 160	Sacrifice in the Ancient World 3 Credits	Sacrifice (from Latin sacer "holy + facere "to make") is one of the most prevalent yet troubling aspects of religion. Its destruction and violence is often at odds with other rituals and core understandings within a religion, so wh
CAMS 180	Ancient Warfare 3 Credits	Historical survey of the evolution of warfare in the ancient Mediterranean region from prehistoric times to the Later Roman Empire. CAMS 180 CAMS (HIST) 180 Ancient Warfare (3) (GH;IL) Warfare has occupied a central plac
CAMS 194	Jerusalem: Sacred and Profane 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
CAMS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CAMS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAMS 200	Ancient Philosophy 3 Credits	This course examines key themes, texts, and persons in ancient Greek philosophy, with the works of Plato and Aristotle at the core. We ask: What did Socrates mean when he said "the unexamined life is not livable by humar
CAMS 250	Honors Classics in Literature and Film 3 Credits	This honors course explores the Classical Tradition as it thrives in the literature of later epochs and film. CAMS 250U Honors Classics in Literature and Film (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requi
CAMS 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CAMS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CAMS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CAMS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAMS 397	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CAMS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAMS 400W	Comparative Study of the Ancient Mediterranean World 3 Credits/Maximum of 12	Comparative study of ancient Mediterranean civilizations. CAMS 400W Comparative Study of the Ancient Mediterranean World (3)(BA) This course meets the Bachelor of Arts degree requirements. CAMS 400W provides stud
CAMS 405	Law & Economy in the Ancient Near East 3 Credits	This course is an overview of the legal and economic texts and institutions in the Ancient Near East. CAMS 405 Law & Economy in the Ancient Near East (3) (IL) (BA) This course meets the Bachelor of Arts degree requiremer
CAMS 410	Classical Epic 3 Credits	Homer, Hellenistic Epic, and Vergil; influences on later epic.
CAMS 411W	Classical Drama 3 Credits	Masterpieces of Greek tragedy (Aeschylus, Sophocles, Euripides) and comedy (Aristophanes, Menander); their influence on Roman writers. CAMS 411WCAMS 411W Classical Drama (3)(BA) This course meets the Bachelor
CAMS 420	Aramaic 3 Credits	Fundamentals of Aramaic grammar, syntax, and vocabulary. The aim of this course is to introduce students to the fundamentals of ancient Aramaic. This course focuses primarily on the morphology and syntax of Aramaic, a
CAMS 425W	Books of the Bible: Readings and Interpretation 3 Credits/Maximum of 12	Study of a biblical book/topic in terms of literary, historical, and cultural contexts, history of interpretation, and critical scholarship. CAMS (J ST/RL ST) 425W Books of the Bible: Readings and Interpretation (3 per semester/n
CAMS 430	Archaeology of the Near East 3 Credits	Culture of the Near East and India from Paleolithic times through the Bronze Age.
CAMS 432W	Gender and Sexuality in the Bible 3 Credits	This writing intensive course will examine issues of gender and sexuality in the Bible, including the Hebrew Bible/Old Testament, the Deuterocanon, and the New Testament. It will introduce students to a variety of academic a
CAMS 440W	Studies in Classical and Ancient Mediterranean Archaeology 3-6 Credits/Maximum of 6	CAMS 440W Studies in Classical and Ancient Mediterranean Archaeology (3-6) (BA) This course meets the Bachelor of Arts degree requirements. CAMS 440W is a writing-across-the-curriculum upper-level archaeology cours
CAMS 450Y	Gender and Sexuality in Ancient Greece and Rome 3 Credits/Maximum of 3	An examination of gender, sexuality, and sexual desire in ancient Greece and Rome. This course examines issues of gender and sexuality in Greece and Rome. Through close analysis of ancient texts and artifacts, we will exp
CAMS 453	Seminar in Ancient Philosophy 3 Credits/Maximum of 6	This course allows intensive study of select authors, traditions, works, or questions from ancient Greek and Roman philosophy. Focal authors may include, for instance, the Presocratics, Socrates, Plato, Aristotle, Epicurus, L
CAMS 461	Plato 3 Credits/Maximum of 6	Plato has had, along with his student Aristotle, the greatest influence on the history of Western philosophy of any writer. He synthesized politics and ethics, pedagogy and dialectics, psychology and epistemology, metaphysic
CAMS 470	Languages and Cultures of the Ancient Near East 3 Credits	This course is an overview of the languages and cultures that populated the Ancient Near East. CAMS 470 Languages and Cultures of the Ancient Near East (3) (IL) (BA) This course meets the Bachelor of Arts degree require
CAMS 471	Sumerian 3 Credits	Introduction to the Sumerian language and the cuneiform writing system. CAMS 471 Sumerian (3)(BA) This course meets the Bachelor of Arts degree requirements. Sumerian was the language originally spoken in the south
CAMS 472	Akkadian 3 Credits	Introduction to the Akkadian language (Babylonian & Assyrian) and the cuneiform writing system. CAMS 472 Akkadian (3)(BA) This course meets the Bachelor of Arts degree requirements. Akkadian is the cover term for the E
CAMS 480	Greeks and Persians 3 Credits	Development and achievements of the Achaemenid kingdom; relationships between Persians and Greeks.
CAMS 481	Introduction to Middle Egyptian & Hieroglyphics 3 Credits	An introduction to the language and script of Ancient Egypt, familiarizing the student with grammar, syntax and lexicon. CAMS 481 Introduction to Middle Egyptian & Hieroglyphics (3) This course is offered as a basic introdu
CAMS 490	Ancient Mediterranean Languages 3-6 Credits/Maximum of 6	Variable topic study of an ancient language of the Mediterranean basin and related areas, other than Greek, Latin, or Hebrew. CAMS 490 Ancient Mediterranean Languages (3-6)(BA) This course meets the Bachelor of Arts de
CAMS 492	Intermediate Field Methods 3-6 Credits/Maximum of 6	On-site experience in archaeological fieldwork in the ancient Mediterranean region. CAMS 492CAMS 492 Intermediate Field Methods (3-6)(BA) This course meets the Bachelor of Arts degree requirements. Students will have
CAMS 493	Intermediate Field Analysis 3-6 Credits/Maximum of 6	On-site experience in archaeological analysis in the ancient Mediterranean region. CAMS 493 Intermediate Field Analysis (3-6)(BA) This course meets the Bachelor of Arts degree requirements. Students will have the opportu
CAMS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CAMS 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CAMS 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CAMS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

CAMS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CAMS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAS 83	First-Year Seminar in Communication Arts and Sciences 3 Credits	This course offers a dynamic introduction to major theoretical, critical, research and pedagogical issues in human communication. Specifically, it will introduce students to essential aspects of the communication sciences as
CAS 84	First-Year Seminar in Communication Arts and Sciences 3 Credits	This course offers a dynamic introduction to major theoretical, critical, research and pedagogical issues in human communication. Specifically, it will introduce students to essential aspects of the study of rhetoric. The field o
CAS 100A	Effective Speech 3 Credits	This general education course explores how people use techniques of oral communication to address practical, professional and civic problems. It is designed to introduce students to principles of effective public speaking, i
CAS 100B	Effective Speech 3 Credits	This general education course introduces students to principles of effective communication with a specific focus on collaborative communication and group problem solving. The goal of CAS 100B is skill development in effe
CAS 100C	Effective Speech 3 Credits	This general education course introduces student to principles of effective communication with a specific focus on the analysis and evaluation of messages. It thus offers a specialized variant of the university's required cours
CAS 100S	Effective Speech 3 Credits	Principles of communication, implemented through presentation of speeches, in addition to the importance of analysis, group discussion and message evaluation.
CAS 101N	Introduction to Human Communication 3 Credits	CAS 101 introduces students to the field of communication studies and to the most important concepts, questions, and ideas that surround the study of communication today. This class is essential for any student who wish
CAS 126	Developmental Listening 3 Credits	Introduction to effective strategies of listening, with an emphasis on studying, note taking, test taking, and research paper writing. CAS 126CAS 126 Developmental Listening (3) This course designed to assist first year stude
CAS 137H	Rhetoric and Civic Life I 3 Credits	Rhetoric and Civic Life (RCL) is a year-long honors course offering comprehensive training in oral, written, visual, and digital communication. It unites these various modes under the flexible art of rhetoric and uses rhetoric bo
CAS 138T	Rhetoric and Civic Life II 3 Credits	This course builds rhetorical skills in oral, written, visual, and digital contexts and introduces deliberation and advocacy in civic and disciplinary spheres. CAS (ENGL) 138T Rhetoric and Civic Life II (3) (GWS)ENGL/CAS 138T,
CAS 162N	Communicating Care 3 Credits	Communicating Care ENGL 162N / SOC 162N / CAS 162N What do we talk about when we talk about health? Our states of well-being and illness are topics that, like the weather, drive our daily conversations, but we rarely
CAS 170N	What is Information? 3 Credits	"What is Information?" considers the material and social nature of information in historical and contemporary contexts. How has information been managed and valued? How have information infrastructures served as sites o
CAS 175N	Persuasion and Propaganda 3 Credits	Propaganda, in common usage, is a deliberate, systematic attempt to manipulate beliefs and emotions, usually through methods considered deceitful and unethical. Persuasion, on the other hand, is an everyday activity in o
CAS 182N	Communication and Sport 3 Credits	CAS 182N: Communication and Sport is an introduction to the unique relationship between communication and sport in our society at any level. This course allows students to understand how we play, watch, interpret and e

CAS 195	Careers in Communication 1 Credits	An introduction to a variety of careers in the field of communication arts and sciences.
CAS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CAS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAS 200	Language, Culture, and Communication 3 Credits	Introduction to language, language development, cultural literacy, culture, and intercultural communication. CAS 200CAS 200 Language, Culture, and Communication (3) (US;IL) This course defines culture broadly, including
CAS 203	Interpersonal Communication 3 Credits	The phenomenon called interpersonal communication encompasses the complexities of interaction between people in any of a variety of situations. The expectations people form prior to a conversation, the messages that th
CAS 204	Communication Research Methods 3 Credits	Overview of the skills necessary to evaluate commonly reported communication research.
CAS 206	Mediation and Communication 3 Credits	Presentation of the history, theory, and practice of mediation as a means of resolving conflict through communication. CAS 206 CAS 206 Mediation and Communication (3) There are two overall objectives to this course. Firs
CAS 208N	Introduction to Managing Conflict and Bargaining 3 Credits	CAS 208N introduces students to the nature of interpersonal conflict and emphasizes how this knowledge, in turn, helps students become more effective negotiators. Students apply both objectivist and interpretive theories t
CAS 209	Democratic Leadership 1 Credits	Penn State has a special opportunity to create new leaders who learn deliberative approaches to politics and public life. This one-credit course provides a background for this approach to democratic leadership, and it also p
CAS 210	Landmark Speeches on Democracy and Dissent 3 Credits	Landmark Speeches on Democracy and Dissent offers a survey of key speeches, debates, and controversies making up the rich tradition of U.S. civic life. The course is designed to introduce students to the basic historical c
CAS 212	Professional Public Speaking 3 Credits	Organizing, adapting and presenting ideas in public informative, persuasive, technical and ceremonial speeches.
CAS 213	Persuasive Speaking 3 Credits	Planning, organizing, and adapting techniques of persuasion to achieve personal and public goals; engaging in critical assessment of persuasive messages.
CAS 214W	Speech Writing 3 Credits	Due to time pressures, media scrutiny, and sadly under-developed rhetorical talents, powerful people in the public and private sectors need speechwriters. Because writing in the character of someone else and writing for the
CAS 215	Argumentation 3 Credits	This course provides an in-depth examination of argumentation in both public and private contexts. The course requires students to investigate the process of researching sound evidence, constructing legitimate argumentati
CAS 216	Practical Parliamentary Procedure 3 Credits	Practice in presiding over and participating in meetings conducted under rules of order.
CAS 220	Persuasion 3 Credits	The course aims to impart knowledge of scientific theories of persuasion by engaging students in the design and execution of a persuasion campaign. The applied component of the course involves (a) selecting a consequen
CAS 222N	Foundations: Civic and Community Engagement 3 Credits	Through readings, discussion, deliberation, listening, and individual as well as collaborative action, this course gives students the opportunity to learn about and practice theories and habits of civic and community engageme
CAS 232N	Identity, Citizenship, and the Rhetoric of American Horror Film 3 Credits	Concentrated on American horror film from the 1930s to the present, the course will address the role of horror in the creation of stories told about the United States, its history, and its people. The course examines horror films
CAS 250	Small Group Communication 3 Credits	People learn the basic features of society, and social relationships, through interaction. Small groups are especially important because they are the smallest possible social unit in which bargaining, negotiation, and deliberatic
CAS 251	Communication, Advocacy, and Entrepreneurship 3 Credits	Communication, Advocacy, and Entrepreneurship empowers students to utilize the process of entrepreneurship as a form of advocacy to enhance the human condition and improve public life. Students in this course learn th
CAS 252	Business and Professional Communication 3 Credits	Review and practice of various communication forms used in modern organizations. Topics include persuasive speaking, speech writing, multi-media presentations and business and report writing. Interviewing, briefing, conf
CAS 253	Health Communication 3 Credits	CAS 253 introduces students to principles of health message design and the general theories and models used to guide these efforts. This course is designed to provide students with theoretical principles for practice in plan
CAS 255	Communicating Gender 3 Credits	This course is designed to offer opportunities for exploring how gender is socially constructed partly through communication. The course offers a survey of concepts from rhetorical theory and gender theory that help explain
CAS 271N	Intercultural Communication 3 Credits	Focus on topics such as language, identity, prejudice, and intergroup relations on a domestic/ international level. This course fulfills an intercultural and international competence (US/IL) requirement. CAS 271N is designed to
CAS 272N	Political Communication and Technology 3 Credits	This course examines how interactive communication technologies reshape political rhetoric, discursive civic culture, deliberation in the online public sphere, and participatory democracy. It traces the evolution of the public s

CAS 280W	Storytelling and Speaking 3 Credits	Principles of oral performance from storytelling to the printed page; includes oral performance of stories, speeches, prose, drama, and poetry.
CAS 283	Communication and Information Technology I 3 Credits	This is an introductory course in the theory and application of technology for communication and self-presentation using the Internet. A major emphasis is placed on Computer-mediated Communication (CMC) ¿ the study of
CAS 295	Internship 1-16 Credits/Maximum of 16	Supervised nongroup instruction, including field experiences, practicums, or internships. Written and oral critique of activity required.
CAS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CAS 296A	**SPECIAL TOPICS** 1-6 Credits	No description
CAS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CAS 297N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course.
CAS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAS 301	Rhetorical Theory 3 Credits	History and theory of public advocacy and civic discourse.
CAS 302	Social Influence 3 Credits	Explores how humans influence others through communication.
CAS 303	Communication Theory 3 Credits	This course is intended as a foundational course in communication theory for Communication Arts and Sciences majors and others interested in social science theory in general. It is designed to show how communication th
CAS 303H	Introduction to Communication Theory- Honors 3 Credits	This honors course provides an overview of conceptual perspectives and theories of human communication. Students will apply theories to analyze and solve problems in different applied contexts (e.g., interpersonal, politica
CAS 304	Quantitative Methods for Communication Research 3 Credits	The purpose of this course is to instruct students on concepts and issues of quantitative research methods in Communication. Students will learn how Communication researchers conduct and evaluate research from using a
CAS 311	Methods of Rhetorical Criticism 3 Credits	Rhetorical Criticism introduces students to the most common methods of rhetorical criticism within the field of communication. These methods are designed to help students analyze and evaluate commonplace forms of rhet
CAS 315	Debate and Civic Life 3 Credits	This course provides historical background on debate in politics and in civic life, examining both public and competitive debate practices. Debate has been a vital part of democratic engagement in the United States since th
CAS 321	Rhetoric and Law 3 Credits	A survey of the literature on the role of rhetoric in law, including trial advocacy, appellate argument, and judicial reasoning. Rhetoric and Law explains how knowledge of rhetorical principles enhances the understanding of leg
CAS 340	Communication and Civility 3 Credits	Communication behaviors contributing to civil and uncivil discourse; their implications in business, public life, across cultures and in interpersonal relationships.
CAS 352	Organizational Communication 3 Credits	This course combines theory, research, and practical application to explore the role of communication in today's organizations. Students will learn communication skills applicable to modern work-related issues. Topics includ
CAS 373	The Rhetorics of War and Peace 3 Credits	This course explores how war and peace are advocated. CAS 373 The Rhetorics of War and Peace (3)In The Wealth of Nations (1776), the first classic of capitalism, Adam Smith speaks of "the art of war," deploying a phrase
CAS 375	Rhetoric and Public Controversy 3 Credits	Debates, arguments, and other forms of communication in public life often address various kinds of ongoing controversies. Resolving those controversies often influences our collective social, political, and moral decision-ma
CAS 383N	Culture and Technology 3 Credits	The aim of this course is to examine the relationship between technology and culture in the broadest sense, from the role of tools used in society to the impact of high technology in post-industrial societies. The course begin
CAS 390	Qualitative Research Methods 3 Credits	An overview of Qualitative Research Methods, including how to conceive, design and execute a research study. CAS 390 Qualitative Research Methods (3) (GS) This course provides students with an understanding of both c
CAS 395	Forensics Practicum 1-2 Credits/Maximum of 16	Provides students in forensics the opportunity for supervised participation in the activity in class and in intercollegiate competition.
CAS 398	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CAS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CAS 402	Speech and Human Behavior 3 Credits	General semantics, thought, and human behavior; not offered at University Park campus.
CAS 403	Interpersonal Communication Theory and Research 3 Credits	CAS 403 is an advanced introduction to social scientific theory and research on interpersonal communication. Course foci center on contemporary theory and research, interpersonal communication in personal and professio
CAS 404	Conflict Resolution and Negotiation 3 Credits	Conflict and its management are critical issues that pervade the fabric of our society. This class is designed as an opportunity to explore the complexities of conflict, to understand the forces that make conflict challenging, ar

CAS 405	Family Communication Theory and Research 3 Credits	Family relationships are powerful. They represent our foundation, our growth, and our potential. Family relationships are complicated. They endure change, hardship, and adversity. And family relationships are ever changing.
CAS 406	Honors Course in Communication Arts and Sciences 3 Credits	Individual study and seminar in selected areas or issues of speech communication.
CAS 408	Interpersonal Influence 3 Credits	Because humans live in groups, they must grapple with who is in charge and how to get along with each other. All social animals have devised various means of answering these basic questions, but humans have the added
CAS 409	Democratic Deliberation 3 Credits	Explores the theory and practice of democratic deliberation in elections, town meetings, juries, legislatures, and other public institutions. CAS (PL SC) 409 Democratic Deliberation (3) Many modern democracies have made s
CAS 411	Rhetorical Criticism 3 Credits	Principles of rhetorical criticism examined through analysis of selected texts and critics.
CAS 415	Rhetoric of Film and Television 3 Credits	Rhetorical analysis of the artistic forms and cultural structures of film and television; intensive study of selected examples.
CAS 420	Rhetorical Theory 3 Credits	Ancient, medieval, Renaissance, Enlightenment, and contemporary theories of rhetoric.
CAS 421	Communication and Aging 3 Credits	Concentrates on the pivotal role that communication plays in the social process of aging. CAS 421 CAS 421 Communication and Aging (3) Communication and Aging is a course that concentrates on the pivotal role that com
CAS 422	Contemporary African American Communication 3 Credits	A focused study on the continuities between African and African American culture and communication. CAS 422 / AFAM 422 Contemporary African American Communication (3) (US)(BA) This course meets the Bachelor of A
CAS 426W	Communication Ethics 3 Credits	Ethical issues in public and private communication; role of communication in expressing and realizing individual and social values.
CAS 438	Rhetoric of Documentary 3 Credits	Rhetorical analysis of the documentary in film, television, and other media; historical and critical analysis of functions and form.
CAS 450W	Group Communication Theory and Research 3 Credits	This writing-intensive course provides students with an overview of a broad range of theories and perspectives on group interaction and their implications for communication, including topics such as group formation, develop
CAS 452	Organizational Communication Theory and Research 3 Credits	CAS 452: Organizational Communication Theory and Research explores the nature and function of communication in organizations; emphasis is placed on theoretical concepts, tools, and skills for effective management of co
CAS 452W	Organizational Communication Theory and Research 3 Credits	CAS 452W explores the nature and functions of communication in organizations; emphasis on writing and exploring concepts, tools, and skills for effective management of communication. This course is designed to further i
CAS 453	Health Communication Theory and Research 3 Credits	Principles of communication about health across the lifespan and within health-care contexts. CAS 453 Health Communication Theory and Research (3) This is an upper division course designed to provide students with a co
CAS 455	Topics in Gender and Communication 3 Credits	This course examines how research and theory in communication can be applied to a range of gender issues. Early communication scholarship emphasized differences between the communication styles of (presumably cisg
CAS 460	Introduction to Honors Thesis 3 Credits	This course will guide students through steps that result in Honors Thesis Proposal.
CAS 470	Nonverbal Communication 3 Credits	Examining ways nonverbal messages, such as gestures, posture, vocal intonation, and facial expressions, affect us on a daily basis.
CAS 471	Intercultural Communication Theory and Research 3 Credits	CAS 471 Intercultural Communication Theory and Research (3)(US;IL) This upper division course provides a comprehensive overview of intercultural communication theories and research. Students will apply theories to analy
CAS 475	Studies in Public Address 3 Credits	History and criticism of public discourse; intensive analysis of selected public addresses and social movements.
CAS 478	Contemporary U.S. Political Rhetoric 3 Credits	In this course students will learn how to analyze selected discourses and movements in recent U.S. political history and to compose and deliver their own discourses--written, spoken, and mediated by digital information tech
CAS 483	Communication and Information Technology II 3 Credits	Theory and application of interactive internet-based communication and information management; for students who want a Liberal Arts approach.
CAS 490	Peer Tutoring for Public Speaking 3 Credits	This course will prepare students to become peer tutors in public speaking. CAS 490 Peer Tutoring for Public Speaking (3) This course will prepare undergraduates for work as peer tutors in the area of public speaking. Stude
CAS 493	Undergraduate Teaching Assistantship 1-3 Credits/Maximum of 6	As a Teaching Assistant, you'll activate your learning in a way that will reinforce and enrich your understanding of course material. In addition to this intellectual benefit, working as a Teaching Assistant is great professional ex
CAS 494	Research Topics 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
CAS 494H	Research Topics 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
CAS 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CAS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CAS 496H	Introduction to Thesis Research 1-3 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CAS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CAS 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CAS 499	Foreign Studies 1-9 Credits/Maximum of 9	Courses offered in foreign countries by individual or group instruction.
CSD 100.00	Preventing Vocal Abuse, Misuse, and Disorders 3 Credits	Preventing Vocal Abuse, Misuse, and Disorders is a 3 credit course intended to be the first course for all University students exploring communication sciences and disorders as a possible major, and students interested in lea
CSD 111.00	Preventing Hearing Loss 3 Credits	This course examines the anatomy and physiology of the auditory system and related the anatomy to general acoustic principles. This course also evaluates hearing measurement, noise measurement, and protective measur
CSD 146.00	Introduction to Communication Sciences and Disorders 3 Credits	Classification of speech, language, and hearing disorders, diagnostic and treatment procedures; skills and responsibilities of the speech-language pathologist and audiologist. CSD 146CSD 146 Introduction to Communicati
CSD 218.00	American Sign Language I 3 Credits	In this course, students will develop their knowledge and awareness of American Sign Language (ASL). Students will learn and develop comprehension and production abilities in ASL. Emphasis will be on recognition and de
CSD 230.00	Introduction to Audiology 3 Credits	Basic measurement procedures, evaluation, and screening of hearing loss using pure-tone and speech audiometry, immittance, and physiological measurements. CSD 230CSD 230 Introduction to Audiology (3) CSD 230, Int
CSD 240.00	Supporting Communication Through The Performing Arts 3 Credits	This course will allow students to acquire skills, knowledge, and experiences about the ways in which performance activities such as improvisation, vocal performance, and dance can promote valued communication and dev
CSD 250.00	Professional Issues in Communication Sciences and Disorders 2 Credits	This course is an overview of contemporary professional issues within the field of communication sciences and disorders. Topics include choosing an appropriate graduate school, understanding the processes of credentialin
CSD 251.00	Guided Clinical Observations in Communication Sciences and Disorders 1 Credits	This course guides students through clinical observation of assessment and treatment of adult and pediatric clients with communication disorders and differences conducted by ASHA-certified speech-language pathologists
CSD 269.00	Deaf Culture 3 Credits	Explores the economic, social, psychological, and political aspects of the deaf culture and its interaction with the majority hearing culture. CSD 269 CSD 269 Deafness and Society (3) (GS;US;IL) explore this community as be
CSD 296.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CSD 297.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CSD 300.00	Developmental Considerations in the Assessment and Treatment of Language Disor 3 Credits	Using a developmental framework to interpret problems in child language acquisition. CSD 300 Developmental Considerations in the Assessment and Treatment of Language Disorders (3) (US;IL) CSD 300, Developmental Co
CSD 311.00	Clinical Phonetics 3 Credits	Introducton to phonetic transcription of speech emphasizing articulatory phonetics of American English, its dialects, and disordered speech; extensive transcription experiences. CSD 311 Clinical Phonetics (3) For Communic
CSD 318.00	American Sign Language II 3 Credits	In this course, the students will use their knowledge from the introductory course to further their development of comprehension and production abilities in American Sign Language (ASL). Emphasis will be on recognition and
CSD 331.00	Anatomy and Physiology for Speech and Hearing 3 Credits	Structure and function of the physical systems involved in speech and hearing, including respiration, phonation, articulation, perception, and neurology. CSD 331 Anatomy and Physiology for Speech and Hearing (3) For Com

CSD 341.00	Acoustic Principles in Communication Sciences and Disorders 3 Credits	Explores the fundamental concepts of acoustics as applied to individuals with communicative disabilities; special emphasis is placed on the acoustic analysis of speech. CSD 301CSD 301 Acoustic Principles in Communicat
CSD 397.00	Special Topics 1-3 Credits/Maximum of 3	Formal Courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CSD 418.00	American Sign Language III 3 Credits	In this course, the students will continue to further development of comprehension and production abilities in American Sign Language (ASL). Emphasis will be on recognition and demonstration of more sophisticated gramm
CSD 428.00	American Sign Language IV 3 Credits	In this course, the students will continue to further development more advanced comprehension and production abilities in American Sign Language (ASL). Emphasis will be on recognition and demonstration of more sophisti
CSD 431.00	Neuroanatomical and Neurophysiological Foundations of Communication Disabilities 3 Credits	This course discusses various modes of communication, including speech perception, speech production, reading, writing, and sign language. All levels of language processing are discussed, from the morpheme level (small
CSD 432.00	Introduction to Deglutition 3 Credits	This course will provide the CSD major with foundational knowledge on the anatomy, physiology, and neurology of the typical, healthy swallowing process (deglutition). This is an elective course for CSD majors and should be
CSD 433.00	Aural Rehabilitation 3 Credits	Methods for improving receptive skills of persons with hearing impairments; clinical observation and practice. CSD 433 Aural Rehabilitation (3) Students will gain a basic understanding of the principles of aural rehabilitation f
CSD 433H	Aural Rehabilitation 3 Credits	Methods for improving receptive skills of persons with hearing impairments; clinical observation and practice.
CSD 442.00	Introduction to Disorders of Articulation and Phonology 3 Credits	This course is required for Communications Sciences and Disorders majors and should be taken during the third or fourth year. The intent of this course is to provide students with a basic understanding of the etiology, diagn
CSD 444.00	Introduction to Organic Disorders of Speech and Language 3 Credits	The profession of speech-language pathology and audiology deals with varied disorders of communication and swallowing. Many clients demonstrate communication challenges due to acquired disorders such as stroke, tra
CSD 451.00	An Introduction to Augmentative and Alternative Communication 3 Credits	Examination of assessment and intervention issues in augmentative and alternative communication techniques with persons with severe communication disorders. The course is required for Communications Sciences and D
CSD 459W	Principles of Clinical Management in Communication Disorders 3 Credits	CSD 459, Principles of Clinical Management in Communication Disorders (PRIN CLIN MGMT), is a 3-credit writing-intensive course required for Communications Sciences and Disorders majors, and should be taken during th
CSD 462.00	Clinical Bases of Language Disorders 3 Credits/Maximum of 3	The course is required for Communications Sciences and Disorders majors. The course is designed to be an overview of language disorders with emphasis given to child language disorders. Specifically, the course provides
CSD 494.00	Undergraduate Research 1-12 Credits/Maximum of 12	Undergraduate research experience under the supervision of a faculty member.
CSD 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Independent study related to a student's interests directed by a faculty supervisor and culminating in the production of a thesis.
CSD 495A	Speech Therapy Practicum 1-6 Credits/Maximum of 6	CSD 495A, Speech Therapy Practicum (SPCH THPY PRACT), is a variable credit (1-6 credit) course offered every semester, The course is not required for Communications Sciences and Disorders majors. Fourth year Comm
CSD 495B	Audiology Practicum 1-5 Credits/Maximum of 5	CSD 495B, Audiology Practicum (AUDIOLOGY PRACT), is a variable credit (1-5 credit) course offered every semester. The course is not required for Communications Sciences and Disorders majors. Fourth year Communicat
CSD 496.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CSD 497.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CSD 497A	Neuro Foundation 3 Credits	This course will introduce students to the underlying neuroanatomy and neuroph, ysiology of communication and social disabilities focus will be on the role, of the nervous system plays in communication (e.g., speaking, liste
CSD 499.00	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
COMM 1	Newspaper Practicum 1-3 Credits/Maximum of 8	A newspaper/print media practicum. Credits do not fulfill Communication major credits in all programs.
COMM 2	Newspaper Editorial Staff 1-3 Credits/Maximum of 8	A newspaper/print media practicum. Credits do not fulfill Communication major credits in all programs.
COMM 3	Radio Practicum 1-3 Credits/Maximum of 8	A broadcast media practicum. Credits do not fulfill Communication major credits in all programs.
COMM 4	Television Practicum 1-3 Credits/Maximum of 8	A broadcast media practicum designed to provide students experience with TV and video production in a variety of contexts.
COMM 20N	Critical Media Literacy 3 Credits	We live in a world in which we are surrounded with media messages that influence how we think and act. Since we are so immersed in media culture, it is important that we know how to analyze media content, production an
COMM 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
COMM 99	Foreign Studies 1-6 Credits/Maximum of 6	Courses offered in foreign countries by individual or group instruction. This course may not be used to satisfy the basic minimum requirements for graduation in any baccalaureate degree program.
COMM 100N	The Mass Media and Society 3 Credits	Mass communications in the United States: organization, role, content, and effects of newspapers, magazines, television, radio, books, and films. The Mass Media and Society is an overview of the interaction between mass
COMM 101N	Understanding and Enhancing Creativity 3 Credits	Creative work challenges the existing ways of seeing and understanding the world and is at the heart of many disciplines. This course will be an integrated general education course (GA-GS) that encourages students to appr
COMM 110	Media and Democracy 3 Credits	COMM 110 Media and Democracy (3) (GH) (BA) This course meets the Bachelor of Arts degree requirements. COMM 110 seeks to introduce students to the important role of the mass media in developing conceptions of der
COMM 118	Introduction to Media Effects 3 Credits	COMM 118 Introduction to Media Effects (3) (GS) Aside from working and sleeping, individuals in the United States spend more time consuming media than any other single activity. By the time the average person reaches th
COMM 118H	Introduction to Media Effects 3 Credits	The purpose of this course is to introduce students to the study of the effects of media on individuals and on society. This course will overview a broad range of media theories that have examined media as a social force, tha
COMM 130	News Literacy Ambassador Institute 1 Credits	Penn State's News Literacy Initiative has partnered with multiple press advocacy organizations to create the News Literacy Ambassador Institute, which teaches students to reflect on the importance of journalism, to think cri

COMM 150N	The Art of the Cinema 3 Credits	COMM 150 (The Art of Cinema): COMM 150 is an introduction to cinema studies which aims to provide students with media literacy for a world in which communication is increasingly visual and cinematic in its form. The cou
COMM 150Q	The Art of the Cinema 3 Credits	COMM 150Q The Art of the Cinema (3) (GA) This course takes a critical and historical approach to cinema, exploring relationships between classical and contemporary films and society and culture. It stresses critical thinking
COMM 151N	Film and Extraterrestrial Life: Science Fact or Fiction? 3 Credits	The search for life beyond planet Earth has been the subject of much interdisciplinary scientific search and has stimulated human imagination. Scientific discoveries of exoplanets (outside of our solar system), of extremophile
COMM 160	Basic News Writing Skills 1 Credits	COMM 160 Basic News Writing Skills (1) COMM 160 is a one-credit course that will provide instruction in the basic writing skills required of all journalists. The course will cover three main topics: (1) spelling and word usage,
COMM 165	Build Your Media Brand 1 Credits	is course will explore and apply the concepts, tools, resources and techniques involved in building a strong digital brand as students start preparing for a career in the communications professions. Students conduct guided r
COMM 168	American Journalism: Values, Traditions, and Practices 3 Credits	This course is designed to give students an overview of American journalism's traditions, principles and values. It examines the historic role of journalism in a democracy and how that is often under economic, legal and politi
COMM 170	Introduction to the Sports Industry 3 Credits	COMM 170 Introduction to the Sports Industry (3) Since 1987 the sports industry has grown from $50 billion to more than $200 billion. It has become one of the ten leading industries in the United States. It is also an industry
COMM 175N	Mental Illness and the Movies 3 Credits	This course serves as an introduction to the integration of psychology and film analysis, with a focus upon mental health. PSYCH 175N / COMM 175N seeks to help students understand the extent to which cinema can influe
COMM 180	Survey of Electronic Media and Telecommunications 3 Credits	COMM 180 Survey of Electronic Media and Telecommunications (3) (GS)(BA) This course meets the Bachelor of Arts degree requirements. This course is an introduction to electronic communications (telecommunications) an
COMM 190	Gaming and Interactive Media 3 Credits	COMM 190 (GAME 140) Gaming and Interactive Media (3) The course is an introduction to the digital interactive media industries for students who may consider seeking employment in that sector, which includes video game
COMM 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
COMM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
COMM 205	Gender, Diversity and the Media 3 Credits	COMM (WMNST) 205 Gender, Diversity and the Media (3) (GS;US)(BA) This course meets the Bachelor of Arts degree requirements. This course examines diversity, equity and inclusion issues in media content, media busine
COMM 208N	Visual Representations of the Middle East in the US and Middle East 3 Credits	This course is an introduction to the visual culture, the visual experience and sociological/historical context of images of the Middle East in the US mass media. The focus of the course will be on reading and interpreting visua
COMM 210	Independent Content Creation 1 Credits	Whether you create content on social media apps, YouTube, a podcast, or a newsletter, the best way to cultivate an audience is to orient your content around a specific niche and then find people who are interested in that to
COMM 215	Basic Photography for Communications 3 Credits/Maximum of 3	An introduction to digital photography, emphasizing camera skills, aesthetics and storytelling. COMM 215 Basic Photography (3) An introduction to photography as a means of visual communication in the digital age. Student
COMM 222N	Social Justice and the Image 3 Credits/Maximum of 3	How do we perceive injustice? What are the roles of images in our perceptions of justice? If justice lies in the eyes of the observer, as the saying goes, what are the eyes seeing? Creating an image does not only mean creatin
COMM 228	Introduction to Science Writing and Communication 3 Credits	Introduction to Science Writing and Science Communication (3) COMM 228 introduces students to the basics of science writing and communication. Through a combination of lecture, discussion, and writing assignments, st
COMM 230W	Writing for Media 3 Credits	COMM 230 Writing for the Media (3)This course is an introduction to writing for various kinds of mass communication media. Students will practice writing public relations news releases, public information announcements, p
COMM 232	Communication Strategies for Social Justice 3 Credits	This course provides students in the Communication and Social Justice minor with an overview of how different digital media platforms are used to create and amplify public interest messages in our contemporary media ecc

COMM 234N	Digital Cultures 3 Credits	This introductory course will combine theory and practice to help students develop a rich understanding of the constantly evolving US digital culture. We will survey a variety of information and communication technologies (IC
COMM 241	Graphic Design for Communications 3 Credits	Introduction to basic design principles, critical analysis of visual material, and solving graphics problems utilizing traditional and digital production tools.
COMM 242	Basic Video/Filmmaking 3 Credits	COMM 242 Basic Video/Filmmaking (3) COMM 242 is an introductory course that emphasizes the development of creative expression and technical skills in digital film production. Students will explore modes of moving imag
COMM 250	Film History and Theory 3 Credits	This is an intermediate film studies course that teaches the student to consider various theoretical approaches to the analysis of film, and to the moving image in general. The course familiarizes the student with formal analys
COMM 251	The Nature of Media 3 Credits	A theoretical, cultural, and philosophical study of print and non-print media, including their histories, possibilities, limitations, and interrelationships. COMM 251 The Nature of Media (3) An examination of the theory, history, p
COMM 260W	News Writing and Reporting 3 Credits	COMM 260W News Writing and Reporting (3) COMM 260W introduces students to the basics of news reporting and writing. Through a combination of lecture, discussion, and writing assignments, students learn how to write
COMM 261	The Literature of Journalism 3 Credits	Representative nonfiction by writers such as Susan Sheehan, George Orwell, Joan Didion, Alice Walker, Truman Capote, C. D. B. Bryan, Russell Baker. COMM 261 The Literature of Journalism (3) (GH) The Literature of Journ
COMM 262	Podcasting and Digital Media for Entrepreneurs 3 Credits	There are millions of podcasts in the world. Some are works of investigative journalism or narrative storytelling, but many others are shows hosted by individuals who use them as a way to build a client or customer pipeline fo
COMM 268	Media Graphics Tools 1 Credits	Over the 10 weeks of this Technology Skills/Tools course students will build a working competency with the industry standard graphics software (such as the Adobe Creative Suite) as used in many careers in the mass media
COMM 269	Photojournalism 3 Credits	COMM 269 Photojournalism (3) Photography as a medium for communication; creating visual content for newspapers, magazines, and online publications; digital camera and editing techniques. Students complete a series o
COMM 270	Introduction to Multimedia Production 3 Credits	Introduction to multimedia project activities to explore image editing, layout, the integration of texts and images and web architecture.
COMM 271	Principles of Journalism 3 Credits	The course introduces how journalists work with the tools of multimedia and how multimedia is changing journalism. COMM 271 Principles of Journalism (3) Journalists have never had better tools to cover the news than the
COMM 280	Introduction to Telecommunications Technologies 3 Credits	Students will evaluate content creation and distribution methods and demonstrate proficiency across emerging digital products and services. COMM 280 Introduction to Telecommunications Technologies (3) The media, com
COMM 282	Introduction to Video Field Production 3 Credits	COMM 282 provides an introduction to the pre-production, production and post production techniques when creating video content. The course will explore the grammar and syntax of constructing and criticizing video mess
COMM 283	Introduction to Multicamera Production 3 Credits	Students will learn the technical aspects of multi-camera studio television production. COMM 283 Introduction to Multicamera Production (3) Communications 283W is an advanced video course. The course builds on the pri
COMM 290N	Cinema and Globalization 3 Credits/Maximum of 3	This course explores how films reflect (and in some cases attempt to explain, promote and memorialize) the emergence and transformation of global social phenomena. Through course readings, students will become familiar
COMM 292	Introduction to Media & Politics 3 Credits	This course explores the intersection of media and politics, introducing students to the critical analysis of mediated political discourse. COMM 292 Introduction to Media & Politics (3) (GH)COMM 292 examines how mass me
COMM 294	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
COMM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
COMM 296A	**SPECIAL TOPICS** 1-6 Credits	No description
COMM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
COMM 297N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course.
COMM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
COMM 300H	Bellisario Honors Colloquium 1 Credits	This course is designed to introduce third-year honors students to research across the communications disciplines. Discussions and guest speaker presentations will cover research from media studies, journalism, advertising
COMM 301	Entertainment Media Industries 3 Credits	This course examines the creation of content in film and television from the genesis of an idea to the deals on the back end. It will explore the new business models that enable content creators to keep pace with newer and r
COMM 302	Art of Comedy 3 Credits	Comedy is an art. Each and every day, we are touched by comedy, from a movie we love to a sitcom we binge-watch. With the advent of new media, we watch more comedy now than ever before. The artists of comedy are r
COMM 303	Entertainment Law 3 Credits	Entertainment law is an overarching term that describes the interplay between several areas of law, including contracts, intellectual property, agency, constitutional law, federal and state administrative law, labor law and nego
COMM 304	Mass Communication Research 3 Credits	COMM 304 Mass Communication Research (3) This course provides an introduction to the logic and methods of social science research as it is employed to study topics in media. Students will be introduced to key principle
COMM 305	Introduction to Critical Studies of Media 3 Credits	The course will acquaint students with the key terms, concepts and research areas of critical media studies (e.g. key terms/concepts and topic areas) and prepare them more effectively for advanced material in media studies
COMM 310	Digital Media Metrics 3 Credits	Analysis of audience data for traditional and new media to create metrics for advertising, content marketing and audience analysis. COMM (IST) 310 Digital Media Metrics (3) The emergence of a converged marketplace whe
COMM 315	Applications for Media Writing 3 Credits	Tutorial and practice in various kinds or journalistic and commercial writing, emphasizing basic skills.
COMM 320	Introduction to Advertising 3 Credits	Advertising management in business, including communication theory; common industry practices; basics of copy, media, and budget decision; and environmental influences. A student may not receive credit for both COMM
COMM 325	Effects of digital games 3 Credits	The course explores the influences of digital games on players and society. It helps students make sense of the complex and conflicting evidence from social science research about both positive and negative outcomes from
COMM 326	Effects of social media 3 Credits	The course explores the effects of social media on individuals, organizations and society. It introduces students to social science research about both positive and negative outcomes of using social media. Topics include ide
COMM 327	Effects of entertainment media 3 Credits	This course examines the central role that entertainment plays in the lives of most people in contemporary media landscapes. Today we are almost constantly tied to media entertainment through a variety of mobile devices, s
COMM 328	Effects of Science, Environmental and Health Media 3 Credits	This course provides students with a conceptual and applied overview of the effects of media representations of science, the environment, and health topics on different audiences. This course is appropriate for students inte
COMM 332	Reporting 3 Credits	Practice in researching and gathering material for and preparation of news stories for print media. COMM 332 Reporting (3) The course is an introduction to the various tools and techniques of researching and gathering infor
COMM 333	Film History for Filmmakers I: The Development of the Cinema to 1960 3 Credits	Film History I describes the prehistory and history of the medium of cinema to 1960. The course explores the artistic, technical, economic development of the cinema, and the cultural contexts in which this development occu
COMM 335N	Media, Social Justice, and the Public Humanities 3 Credits/Maximum of 3	This course introduces students to the ideas and skills that comprise "public humanities," with a focus on digital media tools. It aims to develop student understanding of how public humanities work can address present-day
COMM 337	Intermediate Documentary Production 3 Credits	Exploration of documentary video techniques and aesthetics through the completion of short exercises and projects. COMM 337 Intermediate Documentary Production (3) This course focuses on intermediate technical and a
COMM 338	Intermediate Narrative Production 3 Credits	Exploration of narrative film or video techniques and aesthetics through the completion of short exercises and projects. COMM 338 Intermediate Narrative Production (3) This course is an intermediate aesthetic and technica
COMM 339	Intermediate Alternative Production 3 Credits	Exploration of alternative film or video production techniques and aesthetics through the completion of short exercises and projects. COMM 339 Intermediate Alternative Production (3) COMM 339 is an intermediate level co
COMM 340	Intermediate Cinematography and Editing Techniques 3 Credits	Exploration of film and video production techniques through the use of camera, lighting, audio and digital post-production equipment.
COMM 342W	Idea Development and Media Writing 3 Credits	Introduction to various modalities of idea development and written expression for media production. COMM 342 Idea Development and Media Writing (3) This writing-intensive course is designed to introduce students to vari
COMM 346	Writing for the Screen I 3 Credits	A beginning course in narrative Screenwriting emphasizing analysis, creativity, and critiquing skills necessary for the development of storytelling. COMM 346 Writing for the Screen I (3) The course is about the creative proces
COMM 360	Audio News Production 3 Credits	Reporting, writing, producing, and presenting radio news programs, focusing on the development of news judgment and writing skills. COMM 360 Audio News Production (3)COMM 360 provides an introduction to broadcast
COMM 361	Entrepreneurial Journalism 3 Credits	This course provides an overview of entrepreneurship and innovation in journalism and teaches students how to recognize and act on opportunities to innovate and launch journalism-related enterprises. Active learning peda

COMM 362	Podcasting 3 Credits	In this introduction to podcasting, students will explore one of the 21st century's fastest-growing digital journalism platforms. They will learn the skill of audio storytelling by creating, editing and publishing audio projects that
COMM 364	Data Visualization for Journalists 3 Credits	In this course, students will learn to recognize and appreciate data-driven stories. They will produce stories from data by demonstrating proficiency in sorting, filtering and using simple functions of Excel. Students will use the
COMM 365	Social Media Communication and Strategy 3 Credits	As social media are profoundly transforming human communication, this course aims to help students develop in-depth knowledge of social media communication. With these soft skills, students are better equipped in asse
COMM 370	Public Relations 3 Credits	Public understanding of organizations and institutions; identification and analysis of public; media relations; public relations practice. COMM 370 Public Relations (3) This is the introductory course in public relations. It is a su
COMM 372	Digital Public Relations 3 Credits	This course discusses digital strategies and techniques for public relations. COMM 372 Digital Public Relations (3) This course provides students with a conceptual and applied overview of how digital media are used in the f
COMM 373	Crisis Communications in Public Relations 3 Credits	The course is designed to introduce students to organizational risk assessment and protecting an organization's reputation in times of crisis. COMM 373 Crisis Communications in Public Relations (3) All organizations, large
COMM 374	Audio Production 3 Credits	Theory and practice in studio recording and broadcasting techniques, including continuity/news writing, control room operation and audio production. COMM 374 Audio Communication (3) Studio techniques for the producti
COMM 375	Ad/PR Strategy 3 Credits	Through a combination of case studies and lectures, this class will prepare students to build upon their knowledge of the planning process and to learn how to make strategic communications decisions based on diverse sce
COMM 380	Telecommunications Management 3 Credits	Introduction to basic principles of management as they apply in electronic media industries. COMM 380 Telecommunications Management (3) This course aims to introduce students to the operation and management of the
COMM 383	Advanced Multicamera Production 3 Credits	COMM 383 uses rotating topics to teach advanced video and television production techniques. Building on the concepts and skills taught in the introductory production course, students will learn advanced techniques in pro
COMM 384	Selling the New: Professional Sales Skills & Technology Innovations 3 Credits	Professional selling is the set of skills, knowledge, values and activities involved in selling a product to a customer. But it is so much more. Every business and non-profit enterprise, whether it's a new startup or big firm, expe
COMM 385	Media Programming Strategies 3 Credits	Framework, principles, and strategies for media programming from perspective of content distributors and media outlets. COMM 385 Media Programming Strategies (3) This course will expose the students to the framework
COMM 386	Telecommunications History 3 Credits	Historical development of telecommunications systems in the United States, including telegraph, telephone, radio, television, and the internet. COMM 386 Telecommunications History (3) Telecommunications History examine
COMM 388	Production Management 3 Credits	Videos are an important means by which organizations communicate, whether online, through social media, during presentations, or delivered through traditional media platforms. In the professional arena, more and more org
COMM 395	Experiential Career Exploration 0.5-2 Credits/Maximum of 2	In this unique experiential education opportunity, students visit a variety of companies and businesses in the media and communications eco-system and have the opportunity to engage in small group settings directly with k
COMM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
COMM 400	In the Game: TV Sports Magazine 3 Credits	Students will produce, report, anchor and direct half-hour sports magazine show. COMM 400 In the Game: TV Sports Magazine (3) Magazine shows have expanded beyond traditional news subjects to cover various aspects
COMM 401	Mass Media in History 3 Credits	Relationship of news media to social, economic, and political developments in the Western world.
COMM 402	International Reporting 3 Credits	International Reporting is an advanced level course in the Bellisario College of Communications designed to give student journalists experience in reporting the news in a foreign country. COMM 402 International Reporting (
COMM 403	Law of Mass Communications 3 Credits	Nature and theories of law; the Supreme Court and press freedom; legal problems of the mass media. COMM 403 Law of Mass Communications (3) This discussion-intensive seminar provides an in-depth analysis of contem
COMM 403H	Law of Mass Communications 3 Credits	Nature and theories of law; the Supreme Court and press freedom; legal problems of the mass media. COMM 403H Law of Mass Communications (3) This discussion-intensive seminar provides an in-depth analysis of conte
COMM 404	Telecommunications Law 3 Credits	Overview of the regulation of electronic media. COMM 404 Telecommunications Law (3) Telecommunications Regulation offers students an introduction to a wide range of regulatory and policy issues affecting the telecommu
COMM 405	Political Economy of Communications 3 Credits	COMM 405 takes a critical look at the structure and practices of the U.S. mass media within the U.S. and global political economy. The normative purpose of the course is to consider whether a media system operates in a m
COMM 406	Electronic News Gathering and Editing 3 Credits	Intermediate level skills in creating and editing television news packages. COMM 406 Electronic News Gathering and Editing (3) This course is designed to provide a substantial background in video production techniques co
COMM 407A	Media and Government 3 Credits	This course examines the relationship between politics, governance, and news media, and provides a foundation for understanding media's role in public policy. COMM 407A Media and Government (3) The course is design
COMM 407B	Perspectives on American Journalism 3 Credits	The course examines a number of current issues and topics surrounding journalism including: ethics, state of the industry, and news vs. entertainment. COMM 407B Perspectives on American Journalism (3) Journalism is a
COMM 408	Cultural Foundations of Communications 3 Credits	Examination of oral, scribal, print, industrial, and electronic cultures; analysis of impact of technology on communications and social structure. COMM 408 / STS 408 Cultural Foundations of Communications (3)(BA) This cou
COMM 409	News Media Ethics 3 Credits	Ethical problems in the practice of journalism; principal public criticisms of news media; case study approach. COMM 409 News Media Ethics (3) Ethics is about doing the right thing - which, in the news business, is rarely a
COMM 409H	News Media Ethics 3 Credits	Ethical problems in the practice of journalism; principal public criticisms of news media; case study approach. COMM 409H News Media Ethics (3) Ethics is about doing the right thing - which, in the news business, is rarely
COMM 410	International Mass Communications 3 Credits	The role of international media in communication among and between nations and peoples. COMM 410 International Mass Communications (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This cour
COMM 411	Cultural Aspects of the Mass Media 3 Credits	The mass media as creators and critics of mass culture in American life; relationships between the media and mass culture. COMM 411 Cultural Aspects of the Mass Media (3) This course examines the mass media as creat
COMM 411H	Cultural Aspects of the Mass Media 3 Credits	The mass media as creators and critics of mass culture in American life; relationships between the media and mass culture. COMM 411H Cultural Aspects of the Mass Media (3) COMM 411H takes a cultural studies approac
COMM 412	Sports, Media and Society 3 Credits	Sport and media relationship in American culture. COMM 412 Sports, Media and Society (3) This course is designed to help students more critically view the role of sport media in American culture. The influence of/relationsh
COMM 413W	The Mass Media and the Public 3 Credits	Social-level and political theories of the relationships between media and public; media influences on public opinion; social pressure on the media; political communications. COMM 413W The Mass Media and the Public (3)
COMM 414	Media Management 3 Credits	Theoretical bases and practical approaches for management and administration of communications projects, organizations, and resources. COMM 414 Media Management (3) Students examine various management styles
COMM 415	Advanced Photography for Communications 3 Credits	Advanced applications in documentary photography emphasizing the narrative qualities of imagery, and utilizing digital technologies. COMM 415 Advanced Photography (3) An advanced undergraduate examination of docu
COMM 416	News Practicum 3 Credits	News Practicum is a professionally oriented course for students who have mastered basic news writing and interviewing skills to produce stories for professional news outlets. COMM 416 News Practicum (3) This is a course
COMM 417	Ethics and Regulation in Advertising and Public Relations 3 Credits	Ethical issues in practice of advertising and public relations; legal and regulatory issues; case studies. COMM 417 Ethics and Regulation in Advertising and Public Relations (3) The purpose of this course is to help students g
COMM 418	Media Effects: Theory and Research 3 Credits	Investigation of social and psychological effects of media messages and technologies via theories and empirical evidence pertaining to processes of effects. COMM 418 Media Effects (3) This is an upper-level undergraduate
COMM 419	World Media Systems 3 Credits	Comparative study of modern mass systems and the evolution and structure of specific countries' systems. COMM 419 World Media Systems (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements. This
COMM 419H	World Media Systems 3 Credits	Comparative study of modern media systems of mass communications in selected foreign countries. COMM 419H World Media Systems (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements. Students
COMM 420	Research Methods in Advertising and Public Relations 3 Credits	Primary and secondary research methods used in the development of solutions to advertising and public relations problems. COMM 420 Research Methods in Advertising and Public Relations (3) This course is designed to p
COMM 421W	Advertising Creative Strategies 3 Credits	Planning, designing, writing advertisements; introduction to graphics and production techniques and processes; layout and copywriting practice and critiques. COMM 421W Advertising Communications Problems (3) This co
COMM 422	Advertising Media Planning 3 Credits	Analysis, selection, and scheduling of advertising media; examination of algorithms, technologies, and software used in media planning. COMM 422 Advertising Media Planning (3) This course is designed to provide an intro
COMM 424	Advertising Campaigns 3 Credits	Advertising campaign problems from the viewpoint of the national advertiser and advertising agency; production of a complete advertising campaign. COMM 424 Advertising Campaigns (3) This comprehensive capstone cou
COMM 425	Advanced Advertising Campaigns 3 Credits	An academic option for student AAF members who will develop an integrated advertising campaign to be presented in District competition. COMM 425 Advanced Advertising Campaigns (3) The class is structured along the
COMM 426	International and Intercultural Strategic Communication 3 Credits	Advertising and public relations in the international and intercultural arenas; multicultural strategic communications strategies. COMM 426 International and Intercultural Strategic Communication (3) COMM 426 will provide st
COMM 427	Client/Agency Relations 3 Credits	Building and maintaining client/agency relationships in advertising, public relations and direct response agency business functions. COMM 427 Client/Agency Relations (3) Client/Agency relations provides students with an ur
COMM 428A	Principles of Strategic Communications 3 Credits	Principles of Strategic Communications provides an overview of the various media and communications methods that comprise modern integrated marketing campaigns. COMM 428A Principles of Strategic Communication
COMM 428B	Strategic Communications Law 3 Credits	Analysis of laws and regulations affecting online advertising and strategic communications. COMM 428B Strategic Communications Law (3) Strategic communications law focuses on the key legal issues affecting strategic c
COMM 428C	Strategic Communications in a Global Environment 3 Credits	Strategic Communications in a Global Environment will provide students with a framework for applying public relations and advertising tools across media platforms and across cultures. COMM 428C Strategic Communicati
COMM 428D	Research & Analytics 3 Credits	This course covers online research methods for strategic communication, including web analytics, online surveys, online interviews, and content analysis. COMM 428D Research and Analytics (3) Increasingly, organizations a
COMM 428E	Social Media Strategies 3 Credits	This course covers social media theory, tools and best practices to prepare students for current and future use of social media. COMM 428E Social Media Strategies (3) Social media - including social networking, podcasting
COMM 428F	Strategic Communications Campaign Planning 3 Credits	This is an advanced strategic communications class that covers the process and steps involved in campaign planning. Lectures and readings will cover the relevant concepts and strategies in campaign preparation. Students
COMM 429	Advanced Media Field Production 3 Credits	This course will expand your skills and abilities in video and audio production. You will have the opportunity to work with non-profit, and some for-profit, organizations while producing video assets for them to use to benefit th
COMM 430	Mass Media and Politics 3 Credits	Study of mass media as institutions and the effects of the mass media on politics, public policy, and citizens. COMM 430 Mass Media and Politics (3) In Mass Media and Politics, we address issues and relations of the politic
COMM 431	Topics in Television Culture and Communication 3 Credits	Study television technologies, techniques, audiences, genres and trends in relation to a specific decades or cultural periods.
COMM 432	Social Justice Media Project 3 Credits	This course is the Capstone Experience for the Communication and Social Justice Minor. The course provides students with a hands-on experience applying skills and insights gained during the prerequisite and supporting c

COMM 434	Movies, Media, and the Jewish American Experience 3 Credits	Study of Jewish American Film and Popular Culture. COMM (J ST) 434 Movies, Media, and the Jewish American Experience (3) The course examines film and other popular media, including theater, radio, and television, as i
COMM 436	Advanced Audio Production 3 Credits	Advanced concepts and techniques of audio production in analog and digital formats with hands-on experience in recording, mixing and editing. COMM 436 Advanced Audio Production (3) This course builds on the concep
COMM 437	Advanced Documentary Production 3 Credits/Maximum of 6	Advanced exploration of documentary production techniques and aesthetics through the completion of a short video project. COMM 437 Advanced Documentary Production (3 per semester/maximum of 6) This course is de
COMM 437A	Advanced Documentary Production Abroad 3 Credits	Advanced exploration of documentary production techniques and aesthetics through the completion of a short video project abroad. COMM 437A Advanced Documentary Production Abroad (3) This course is designed to e
COMM 438	Advanced Narrative Production 3 Credits/Maximum of 6	Advanced exploration of narrative production techniques and aesthetics through the completion of a short film or video project. COMM 438 Advanced Narrative Production (3 per semester/maximum of 6) This course is desi
COMM 439	Advanced Alternative Production 3 Credits/Maximum of 6	COMM 439 Advanced Alternative Production (3) is a senior level course focusing on the development and expression of the individual filmmaker. The emphasis of the course is on exploring the history, conventions and mode
COMM 440	Advanced Cinematography and Lighting Techniques 3 Credits	Advanced exploration in camera, lighting, audio, and color-grading techniques, emphasizing technical skills as well as aesthetics. COMM 440 Advanced Cinematography and Lighting Techniques (3)This course is a comprehe
COMM 441	Advanced Graphic Design for Communications 3 Credits	Theory and practice designing graphic visual communication in commercial, non- commercial, and fine art formats for print and on-line media. COMM 441 Advanced Graphic Design (3) An advanced examination of graphic
COMM 443	Producing Workshop 3 Credits	This course will immerse students in the language and practice of producing film and video projects. COMM 443 Producing Workshop (3) Through a combination of lecture, readings, screenings, and practical exercises, stud
COMM 444	Advanced Post-Production Techniques 3 Credits	This course offers intensive practical experience in editing, motion graphics and sound mixing techniques, emphasizing both technical skills and aesthetics. COMM 444 Advanced Post-Production Techniques (3) Through a
COMM 445	Directing Workshop 3 Credits	An advanced aesthetic and skill production course in directing for the screen. COMM 445 Directing Workshop (3) This course is an advanced aesthetic and skill production course in directing for the screen. The class is desi
COMM 446	Writing for the Screen II 3 Credits	An advanced course in screenwriting that further develops elements of storytelling technique.
COMM 448	Advanced Group Production I 3 Credits	COMM 448 Advanced Group Production I (3) is designed to enable students to produce portfolio-quality work in any production mode (alternative, documentary, narrative) and to bring together ideas, processes, practices, a
COMM 449	Advanced Group Production II 3 Credits	Continuation of advanced production course emphasizing intensive collaborative film-video production from script through post-production. COMM 449 Advanced Film and Video Projects (3) This course is the second half o
COMM 450	Digital Advertising 3 Credits	Digital advertising has transformed many industry activities related to buying and delivering advertising. Information technology and big data have revolutionized the way media and content providers interact and negotiate wi
COMM 450A	Digital Campaigns 3 Credits/Maximum of 3	This project-oriented course provides students with the knowledge and skills necessary to conduct sponsored advertising-based marketing campaigns. This course offers students an opportunity to gain knowledge and hand
COMM 451	Topics in American Film 3 Credits/Maximum of 6	Critical and historical studies of American films. Analysis of directing, cinematography, editing, screenwriting, and acting.
COMM 452	Topics in International Cinema 3 Credits/Maximum of 6	Critical and historical studies of topics in non-American film. Analysis of theory, direction, cinematography, editing, and screenwriting.
COMM 453	Narrative Theory: Film and Literature 3 Credits	This course explores the relationships between language and the medium of film through analysis of adaptations between other mediums and the cinema, and by analysis of the influences between the discourses of literature
COMM 454	Documentary in Film and Television 3 Credits/Maximum of 6	Study of representative films from various documentary movements, examining form, technique, trends, and audience objectives.
COMM 455	Advanced Film Theory and Criticism 3 Credits/Maximum of 6	Description: This capstone course builds upon scholarly ideas and experiences in COMM 150 to familiarize the student with various theories of film, and their application to specific films and categories of films. This course re
COMM 456	Media Criticism and Theory 3 Credits	Critical and theoretical approaches to the analysis of media and communication. To what extent does media (television, movies, print, radio, Internet, etc.) shape our awareness of not only the world around us but also oursel
COMM 457	Media Audiences and Contexts 3 Credits	Survey of the ways media attempt to influence audience reception and how audiences hold sway over media content. COMM 457 Media Audiences and Contexts (3) The course begins with an examination of how the mass
COMM 458	Media Law and Ethics 3 Credits	The study and practice of key issues in media law and ethics, including libel law, conflict of interest, truth in advertising. COMM 458 Media Law and Ethics (3) An examination of the role of the mass media in American societ
COMM 459	Cultural Effects of Interactive and Online Media 3 Credits	Study of the global social impact and rhetorical limitations of converging media, emphasizing cross-cultural media influences. COMM 459 Cultural Effects of Interactive and Online Media (3) An examination of the various effe
COMM 460W	Reporting Methods 3 Credits	Techniques in reporting news and trends at the local, regional, and county levels. Emphasis on both deadline and interpretive reporting.
COMM 461	Magazine Writing 3 Credits/Maximum of 6	Students will learn about idea conception, writing, and editing of magazine stories. COMM 461 Magazine Writing (3 per semester/maximum of 6) Students will learn about idea conception, writing, and editing of magazine st
COMM 461A	Digital Magazine Production 3 Credits/Maximum of 6	Students will be expected to develop a coherent editorial voice that will engage and educate their identified target audience. This voice will be embodied in a regularly updated web site which will be monitored and improved
COMM 462	Feature Writing 3 Credits	Reporting and writing the human interest article for newspapers and magazines. COMM 462 Feature Writing (3) COMM 462 teaches the fundamentals of reporting and writing feature stories for newspapers and magazines. S
COMM 463	Newspaper Design 3 Credits	This course will cover newspaper design. Students will learn to solve design problems, edit photos, and work with industry software. COMM 463 Newspaper Design (3) This upper-division course will cover contemporary de
COMM 464W	Editorial, Opinion and Commentary Writing 3 Credits	Introduces techniques of editorial, opinion and commentary writing. COMM 464W Editorial, Opinion and Commentary Writing teaches the fundamentals of writing editorial, opinion and commentary articles. Students learn the
COMM 465	Television Reporting 3 Credits	Television news reporting and production. COMM 465 Television Reporting (3) COMM 465 provides an introduction to television news reporting and production. Students learn the techniques of reporting and writing news for
COMM 466	Public Affairs Broadcasting 3 Credits	Students research, write, produce and direct public affairs shows and in-depth reports. COMM 466 Public Affairs Broadcasting (3) This is an advanced field production and reporting course focusing on the exploration of tim
COMM 467	News Editing and Evaluation 3 Credits	Concepts and procedures involved in processing news for various news media, but with emphasis on print media editing. COMM 467 News Editing and Evaluation (3) The goal of the course is to qualify the student to be a p
COMM 468	Graphic Applications in Print Communications 3 Credits	Issues, concepts, and practice identified with contemporary design strategies for print journalism, advertising, and public relations.
COMM 469	Photography for the Mass Media 3 Credits	Development of an informed and critical approach to photocommunication; individual and team projects, seminars, and critiques.
COMM 470A	Convergent Media News Service: Newspaper Production 3 Credits	Practicum emphasizing newsgathering and reporting for newspaper and for additional media formats.
COMM 470B	Convergent Media News Service: TV 3 Credits	Practicum emphasizing television news package production for periodic campus news program and for additional media formats. Students must have completed COMM 260W and (COMM 242 or COMM 282) or receive perr
COMM 470C	Convergent Media News Service: Radio and Online Publications 3 Credits	The digital revolution and cross media ownership has challenged all areas of communications, especially the electronic and print news media. Most media outlets now have an online presence along with their traditional opera
COMM 471	Public Relations Media and Methods 3 Credits	Analyzing media and audiences for public relations purposes; planning, designing, and writing public relations communications; press relations and publicity methods. COMM 471 Public Relations Media and Methods (3) CO
COMM 472	Public Relations Event Planning 3 Credits	Effective planning, organization, implementation and evaluation of events planning. COMM 472 Public Relations Events Planning (3) This course links the public relations theories and practices with skills and techniques requ
COMM 473	Public Relations Campaigns 3 Credits	Case studies and problems in publicity and public relations in industry, government, and institutions. COMM 473 Public Relations Problems (3) This capstone course in the public relations major is designed to provide the stu
COMM 474	Depth Reporting 3 Credits	Exploration of strategies for developing indepth newspaper or magazine articles, with an emphasis on gathering information and long-form writing. COMM 474 Depth Reporting (3) This is an upper-level undergraduate cours
COMM 476	Sports Writing 3 Credits	Techniques in sports reporting and writing for media. COMM 476 Sports Writing (3) This is an upper-level course designed to prepare students to write sports stories for news outlets. These specialized stories - including cor
COMM 477	Sports Broadcasting 3 Credits	Techniques of sports broadcasting for radio and television. COMM 477 Sports Broadcasting (3) This is an upper-level course designed to prepare students to broadcast sports events and news. These specialized broadcasts
COMM 478	Sports Information 3 Credits	Techniques of effective media relations used in a sports information office. COMM 478 Sports Information (3) This is an upper-level course designed to prepare students for a specialized form of modern media relations, sport
COMM 479	Telecommunication Economics 3 Credits	Economic, regulatory/business issues in the design/operation of large-scale telecommunication networks such as telephone, cable, wireless, and computer networks. COMM 479 Telecommunications Economics (3) The obj
COMM 480	Television News 6 Credits	Produce a weekly television newscast. COMM 480 Television News (6) COMM 480-Television News will help prepare students for a career in television newscast content, presentation and production with a strong multimedia
COMM 481	Advanced Multimedia Production 3 Credits	Advanced work in multimedia production using web authoring, video editing, audio editing, image editing and animation software. COMM 481 Advanced Multimedia Production (3)This course builds on the foundations of mu
COMM 482	Brand Storytelling 3 Credits	This course, in conjunction with the Penn State Office of Strategic Communications or other non-profit groups will teach students how to combine advanced production skills and advanced branding knowledge with social m
COMM 483	Wireless Communications Industry 3 Credits	A broad examination of the wireless phone industry including its development, current structure and future. COMM 483 Wireless Communications Industry (3) Since the 1990s, the wireless industry has transformed "how" pe
COMM 484	Emerging Telecommunications Technologies 3 Credits	Overview of technology of electronic media and related societal issues. COMM 484 Emerging Telecommunications Technologies (3) COMM 484 introduces advanced topics related to the technologies in telecommunications
COMM 484A	Wireless Devices and Global Markets 3 Credits	Wireless devices and applications have become pervasive throughout the world. Global wireless carriers continue to evolve their networks to provide increased access and data speeds for their subscribers. To leverage the i
COMM 486W	Telecommunications Ethics 3 Credits	Drawing on normative theory and political philosophy, this course explores problems in ethics and social responsibility in telecommunications. COMM 486 Telecommunications Ethics (3) In this course the instructor and stud
COMM 487W	Advanced Telecommunications Management and Leadership 3 Credits	Strategic management, leadership and ethics issues including marketing, financing, entrepreneurship, and innovation. COMM 487 Advanced Telecommunications Management and Leadership (3) This senior-level capstone
COMM 488	Writers' Seminar 3 Credits/Maximum of 99	Workshop designed for advanced students interested in professional writing, involving extensive mutual and self-criticism. COMM 488 COMM 488 Writer's Seminar (3) This course is designed for advanced students interest
COMM 489W	Advanced Telecommunications Topics 3 Credits	Exploration of advanced topics related to the telecommunications industries. COMM 489 Advanced Telecommunications Topics (3) This capstone course provides students with an in-depth exploration of current issues facir
COMM 490A	Convergent Media Seminar 3 Credits	This seminar examines media convergence issues, trends, and effects on society through discussions, presentations, and creation of a capstone project.

COMM 491A	International Telecommunications - Travel 3 Credits	This course focuses on how a nation or region's unique cultural and political environment shapes the development and impact of its media and telecommunications industries, and how those industries in turn influence the na
COMM 492	Internet Law and Policy 3 Credits	Development in the law, policy, and business of Internet-mediated communications and commerce; emphasis on impact on existing legal, regulatory, and economic models. COMM 492 Internet Law and Policy (3) This course
COMM 493	Entrepreneurship in the Information Age 3 Credits	Provides students with knowledge/tools to take their innovation/technology idea through the business planning, capital, and operations budgeting processes. COMM 493 Entrepreneurship in the Information Age (3) COMM 4
COMM 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
COMM 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
COMM 495	Internship 1-3 Credits/Maximum of 6	Supervised practicum with a variety of communications-specific entities including but not limited to digital media outlets, newspapers, broadcast/cable stations and networks, public relations agencies, advertising agencies, t
COMM 495A	Internship 1-6 Credits/Maximum of 6	Supervised practicum with a variety of communications-specific entities including but not limited to digital media outlets, newspapers, broadcast/cable stations and networks, public relations agencies, advertising agencies, t
COMM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
COMM 496H	Independent Studies 1-6 Credits/Maximum of 6	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses. These are generally used as thesis credits for undergraduate students in the S
COMM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
COMM 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
COMM 499	Foreign Study--Mass Communications 1-12 Credits/Maximum of 12	Study of mass communication systems and practices in selected foreign countries, by individual or group instruction.
CEDEV 430	Principles of Local Economic Development 3 Credits	Concepts, strategies, and techniques of local economic analysis, planning, and development; case studies and decision-making exercises. CEDEV 430 CEDEV (AG EC) 430 Principles of Economic Development Planning (3)T
CEDEV 452	Community Structure, Processes and Capacity 3 Credits	Social organization, processes and change in communities; use of sociological principles in analysis of community problems and development. CEDEV 452 CEDEV (R SOC) 452 Rural Organization (3)This course combines a
CED 102N	Wicked Problems Like Inequality, Sustainability & Climate Change: What's the Right T 3 Credits	Many of the most pressing problems facing humankind, like inequality, sustainability & climate change, are known as Wicked Problems; they are complex with many interconnected components, are difficult to clarify or define
CED 102Q	Wicked Problems Like Inequality, Sustainability & Climate Change: What's the Right T 3 Credits	Many of the most pressing problems facing humankind, like inequality, sustainability & climate change, are known as Wicked Problems; they are complex with many interconnected components, are difficult to clarify or define
CED 109N	Gentrification in Everyday Life 3 Credits	The concept of ¿gentrification¿ offers a framework to understand the rapid urban and rural transformations that have occurred over the past decades all over the world. Since the 1960s, the definition of gentrification as displ
CED 152	Community Development Concepts and Practice 3 Credits	Community development is broadly recognized as a process by which places (cities, small towns, neighborhoods) and the people in them, improve their economic and/or social well-being. Health of the environment and sust
CED 155	Science, Technology and Public Policy 3 Credits	The overarching course objective is for students to understand the roles of science and technology in sustainable development, including public policy formation and implementation. The course consists of three parts. Part 1
CED 160	Introduction into Ethics and Issues in Agriculture 3 Credits	This course covers ethics and the social contract to include substantive ethical theories focusing on rights-based ethical theories (libertarianism and egalitarian theories) and consequentialist theories (utilitarianism and axiolo
CED 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CED 201	Introductory Environmental and Resource Economics 3 Credits	Apply principles of economics to analyze environmental protection policies and natural resource use decision. Examine contemporary policy issues. E RRE (AG EC) 201 Introductory Environmental and Resource Economics (
CED 230	Development Issues in the Global Context 3 Credits	Local communities - in both developed and developing countries -- are influenced by strong global forces that affect the well-being of their residents. Community economic development is one approach to enhance improve
CED 252	Anti-Racist Theory and Practice in Community Work 3 Credits	The career path for many students in the CED program will position them to work in neighborhoods and communities where people come from a diversity of backgrounds, often different from the students¿ own background.
CED 275	Community, Environment and Development Professional Seminar 1 Credits	The CED Professional Seminar helps students learn how to be successful in the CED major and in their future professional careers. The emphasis is on career opportunities, important skills to learn and hone, and tailoring the
CED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CED 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CED 309	Land Economics and Policy 3 Credits	Land is a key natural resource for society. This course uses economic analysis to examine land use and land use policy, considering how the spatial configuration of landscapes changes in response to changes in land prices
CED 327	Environment and Society 3 Credits	Environmental and natural resource problems are not only biophysical in nature but intersect with social, political, economic, belief, value, and knowledge systems. The goals of this course are to introduce students to sociolo
CED 329H	Intermediate Environmental & Resource Economics (Honors) 3 Credits	This Honors course focuses on intermediate principles of environmental and natural resource economics, with strong emphasis on policy analysis and applications. The central focus in any economics course is how best to a
CED 360	The Corporation and Social Responsibility 3 Credits	The corporation has emerged as perhaps the most powerful institution in the world in the 21st Century. A recent estimate listed 31 nations and 69 corporations among the 100 largest economies in the world. These circumsta
CED 375	Community, Local Knowledge, and Democracy 3 Credits	Understanding community decision-making, citizen-expert interactions and methods for resolving seemingly intractable conflicts associated with public issues. CED 375H Community, Local Knowledge, and Democracy (3) D
CED 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CED 400N	Exploring Indigenous Ways of Knowing in Great Lakes Region: Lecture 3 Credits	Exploring Indigenous Ways of Knowing in the Great Lakes Region explores concepts and values distinctive to indigenous ways of knowing (IK) in the Great Lakes Region through readings, video segments, and lectures. Five
CED 401	Exploring Indigenous Ways of Knowing Among the Ojibwe 0.5 Credits	Through an intensive cultural engagement students will learn skills important to the pursuit of ethnographic research in cross-cultural contexts. CED 401 Exploring Indigenous Ways of Knowing Among the Ojibwe (0.5) (US) E
CED 404	Community, Environment and Development Research Methods 4 Credits	CED 404 teaches students practical approaches to empirical research in the areas of community, environment, and development (CED). Through classroom work and the data lab, the course covers research tools commonly
CED 409	Land Use Planning and Procedure 3 Credits	This course gives students an understanding of the legal and procedural aspects of land use planning in the United States. The course explains the sources of land use planning authority, the processes by which it is applied,
CED 410	The Global Seminar 3 Credits	Exploration of critical global issues relevant to sustainable development and the environment. Collaborative with other universities worldwide. CED 410 The Global Seminar (3) The Global Seminar course will help students ga
CED 417	Power, Conflict, and Community Decision Making 3 Credits	Community decision making and public choice is the result of collective action among individuals. The purpose of this course is to develop frameworks for analyzing conflict, power, and public choice. This course enables stu
CED 420W	Gender and International Development 3 Credits	This course examines gendered processes of economic and social change in the Global South in a context of rapid globalization. We will study how gender inequities and inequalities shape and are shaped by economic restr

CED 425	International Community and Economic Development 3 Credits	International community and economic development. CED 425 International Community and Economic Development (3) Eight of ten people on the planet live in developing countries where problems such as hunger, malnutr
CED 429	Natural Resource Economics 3 Credits	Optimal management of resources; roles of markets and other institutions; resources and economic development; public policy.
CED 430W	Principles of Community Economic Development 3 Credits	This course is designed to introduce the issues giving rise to concern for rural and regional economies, and the theories, concepts and tools of rural and regional economic development. The goal is to integrate theory and pr
CED 431W	Economic Analysis of Environmental and Resource Policies 3 Credits	In this course students learn economic analysis methods for understanding environmental and natural resource issues, and for analyzing environmental and natural resource policies. Methods considered include benefit-cost
CED 440	Labor in the Global Economy 3 Credits	This course examines laborers in the global economy and the economic, political, and social forces that shape worker experiences of precarity and empowerment. We will study the global division of labor, experiences of wor
CED 442	Changing Food Systems: Comparative Perspectives 3 Credits	The course begins with an overview of the scope of food systems and an orientation to interdisciplinary and community - based approaches for understanding and addressing social and ecological problems and potential ch
CED 445	International Development Practice 3 Credits	The goal of this 400-level course is to facilitate students' development of the hands-on skills and practical knowledge needed to engage successfully in international development work in the public, private, and non-governm
CED 450	International Development, Renewable Resources, and the Environment 3 Credits	Theories of agricultural and economic development, with particular attention to interactions between development, renewable resources, and the environment. CED 450 International Development, Renewable Resources, an
CED 452	Community Organization 3 Credits	This course combines an introduction to the social theories of communities with real-life examples of applications to understanding community problems and concerns. The focus is on the circumstances facing the range of p
CED 460W	Policy, Politics and Perspectives on Social & Environmental Responsibility 3 Credits	Social and environmental responsibility often is viewed very differently by various stakeholders, such as consumers, investors, businesses, labor government, and others. The elements and issues they consider as important
CED 462	Corporate Social and Environmental Performance 3 Credits	This seminar-style course uses speakers from a range of stakeholder groups to highlight and discuss the performance of Corporate Social Responsibility (CSR) programs in industry. The influence of government, non-profits
CED 475	CED Integrated Capstone Experience 3 Credits	A well-designed capstone experience provides students with a valuable reflective and integrative experience as they complete their baccalaureate degree programs. This course is designed to encourage students to reflect, i
CED 494	Undergraduate Research 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group bsis.
CED 494H	CED Honors Research Project 1-12 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CED 495A	Internship in Community, Environment, and Development 1-15 Credits/Maximum of 15	Supervised field experience in an environmental setting.
CED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CED 497	Special Topics 1-18 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CED 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CIED 401	Introduction to Comparative Education 3 Credits	Origins, nature, scope, basic literature, and methodology of comparative education. Study of sample topics. CI ED 401 CI ED (EDTHP) 401 Introduction to Comparative and International Education (3) (IL) The course introduc
CIED 410	The Global Impact of Education 3 Credits	This course examines the global impact of education on human rights, health, economic development, political mobilization, religion, and environmental sustainability. The education revolution has significantly changed the w
CIED 440	Introduction to Philosophy of Education 3 Credits	Introduction to the examination of educational theory and practice from philosophical perspectives, classical and contemporary. CI ED 440 CI ED (EDTHP) 440 Introduction to Philosophy of Education (3) The major objective
CIED 470	Introduction to Distance Education 3 Credits	An introduction to the history, philosophy, organizations, learning theories, and instructional procedures used in American and foreign distance education.
CIED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CMLIT 1	Introduction to Western Literatures Through the Renaissance 3 Credits	CMLIT 1 provides a survey of Western literary tradition and considers a variety of genres -- such as epic, drama, sonnet, essay, saga, chronicle, folktale, and novel -- with attention to the literary and historical contexts which
CMLIT 3	Introduction to African Literatures 3 Credits	Comparative analysis of drama, essay, novel, poetry, and stories from traditional oral forms to contemporary expressions of African literary styles. CMLIT 3 Introduction to African Literatures (3) (GH;IL)(BA) This course meets
CMLIT 4	Introduction to Asian Literatures 3 Credits	Satisfies General Education (GH), International Cultures (IL), Other Cultures (BA) requirements. This course is designed to act as a gateway to Asian literatures and cultures - through English translation - of selected fictional a
CMLIT 5	Introduction to Literatures of the Americas 3 Credits	Comparative interpretation of the oral and written literary traditions of North, Central, and South America. CMLIT 5 Introduction to Literatures of the Americas (3) (GH;US;IL)(BA) This course meets the Bachelor of Arts degree
CMLIT 6	Literature and Philosophy 3 Credits	This course serves as an introduction to philosophy through the critical and analytic reading of popular, classic, and insightful literature - novels, plays, poetry, and creative non-fiction - from both Western and Non-western a
CMLIT 7	Introduction to Middle Eastern Literatures 3 Credits	This course provides an introduction to the diverse literatures of the region known as the Middle East. Through a study of translations of works from Arabic, Turkish, Persian, Hebrew and other languages as well as Anglophon
CMLIT 10	World Literatures 3 Credits	The development of literature around the world - from epic, legend, lyric, etc. in the oral tradition to modern written forms. CMLIT 10 The Forms of World Literature: A Global Perspective (3) (GH;IL)(BA) This course meets the

CMLIT 10U	The Forms of World Literature: A Global Perspective 3 Credits	The development of literature around the world--from epic, legend, lyric, etc. in the oral tradition to modern written forms. CMLIT 10U The Forms of World Literature: A Global Perspective (3) (GH;IL)(BA) This course meets the
CMLIT 11	The Hero in World Literature 3 Credits	The figure of the hero/heroine examined in world literature as a vehicle for expressing social and cultural values. CMLIT 11 The Hero in World Literature (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requireme
CMLIT 12	Introduction to World Drama and Performance 3 Credits	The power, ethics, and excitement of drama and related forms of performance literature, presented in a global and comparative context. CMLIT 12 Introduction to World Drama and Performance (3) (GH;IL) (BA) This course m
CMLIT 13	Virtual Worlds: Antiquity to the Present 3 Credits	Virtual worlds from anicent to postmodern, in a comparative and global context that includes literature, film, and online multiplayer games. CMLIT 13 Virtual Worlds: Antiquity to the Present (3) (GH;IL) (BA) This course meets t
CMLIT 19N	Being in the Universe 3 Credits	"Being in the Universe" considers three fundamental questions of human existence from both humanistic and scientific perspectives: (1) What is the nature of our universe, and to what extent are creatures like ourselves a pre
CMLIT 83S	First-Year Seminar in Comparative Literature 3 Credits	International topics in literature and culture; each seminar will have a specific topic as announced (see the Comparative Literature Web site). CMLIT 83S First-Year Seminar in Comparative Literature (3) (GH;FYS;IL)(BA) This co
CMLIT 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMLIT 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMLIT 100	Reading Across Cultures 3 Credits	CMLIT 100 Reading Across Cultures, is an introductory course to the discipline of Comparative Literature. The course is generally based upon a central theme (or series of themes) around which the reading assignments are c
CMLIT 101	Race, Gender, and Identity in World Literature 3 Credits	CMLIT 101 The Theme of Identity in World Literatures; Race, Gender, and Other Issues of Diversity (3) (GH;US;IL)(BA) This course examines issues of race, gender, religions, and ethnicity as expressed in literary, social, and cu
CMLIT 105	The Development of Literary Humor 3 Credits	Literary humor expressed as satire, comedy, and farce--from ancient times to the present--in an international and multicultural context. CMLIT 105 The Development of Literary Humor (3) (GH;IL)(BA) This course meets the Ba
CMLIT 106	The Arthurian Legend 3 Credits	The growth and development of the legend of King Arthur, from medieval Europe to modern Japan. CMLIT 106 The Arthurian Legend (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course is
CMLIT 107	Exploration, Travel, Migration, and Exile 3 Credits	CMLIT 107 The Literature of Exploration, Travel, Migration, and Exile (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. CMLIT 107 compares the literatures of travel, migration, exploration, and exile
CMLIT 108	Myths and Mythologies 3 Credits	World mythology: myths primarily of non-Western cultures, based on selected areas and traditions around the world. CMLIT 108 Myths and Mythologies (3) (GH;IL)(BA) This course offers a survey of several different cultural tr

CMLIT 109	Native American Myths, Legends, and Literatures 3 Credits	Myths, legends, and literatures of Native American cultures. CMLIT 109 Native American Myths, Legends, and Literatures (3) (GH;GI)(BA) This course meets the Bachelor of Arts degree requirements. CMLIT 109, Native Ameri
CMLIT 110	Jewish Literature: An International Perspective 3 Credits	Literature of the Jewish tradition in various cultures and contexts, such as Europe, Israel, Islamic countries, and the Americas. J ST 131 (CMLIT 110) Jewish Literature: An International Perspective (3) (GH;US;IL) (BA) This cou
CMLIT 111	Introduction to Literatures of India 3 Credits	CMLIT 111 Introduction to Literatures of India (3) (GH;IL)(BA) This course examines readings and cultural texts from India and other parts of South Asia, including both classical and modern texts from a variety of traditions. R
CMLIT 112N	Introduction to Global Drama, Theatre, and Performance 3 Credits	Introduction to Global Drama, Theater, and Performance will enable students to discover the power and excitement of drama in a global context. Students will encounter a variety of cultural contexts as they observe how play
CMLIT 113	Jewish Myths and Legends 3 Credits	Comparative study of diverse interpretations of stories from the Bible in Judaism and Christianity. CMLIT 113 / JST 113 / CAMS 113 / RLST 113 Myths and Legends of the Jews (3) (GH;IL) The impact of the Bible on Western
CMLIT 120	The Literature of the Occult 3 Credits	Important literary works dealing with witchcraft, demonology, vampirism, ghosts, and related concepts, from biblical times to present. CMLIT 120 The Literature of the Occult (3) (GH;IL)(BA) This course meets the Bachelor of
CMLIT 122	Global Science Fictions 3 Credits	A study of the relationships between science, literature, and film, from an international and interdisciplinary perspective. CMLIT 122 Global Science Fictions (3) (GH;US;IL) (BA) This course meets the Bachelor of Arts degree r
CMLIT 128N	The Holocaust in Film and Literature 3 Credits	This class studies how art, literature, film, and other media can help us to gain a perspective on one of the most horrific events in human history, the Holocaust: the genocidal murder of more than six million men, women, and
CMLIT 130	Banned Books: International and Comparative Perspectives 3 Credits	The world of banned books, their history, and their politics, studied comparatively and internationally. CMLIT 130 Banned Books: International and Comparative Perspectives (3) (GH;IL)This course examines one of the most c
CMLIT 131	Crime and Detection in World Literature 3 Credits	Issues of ethics, truth, justice, and social order as embodied in crime and detective literature, presented in comparative contexts. CMLIT 131 Crime and Detection in World Literature (3) (GH;IL)This course studies the origins a
CMLIT 132	Nobel Prize Literature 3 Credits	Introduction to Nobel Prize winning literature and the culture of the prize in international and historical context. CMLIT 132 Novel Prize Literature (3) (GH;IL) (BA) This course meets the Bachelor of Arts degree requirements.Th

CMLIT 133N	Global Satire and Modern Politics 3 Credits	Across cultures and across history, people have used political satire to call out abuses of power, manipulation, deception, and absurdity. While there are examples of political satire everywhere, its growth is a form of political
CMLIT 140	Literature and the Other Arts: International and Comparative Perspectives 3 Credits	A comparative, international examination of the relationship between literature and non-literary art forms. CMLIT 140 Literature and the Other Arts: International and Comparative Perspectives (3) (GH;IL) (BA) This course mee
CMLIT 141	Religion and Literature 3 Credits	Major religious themes as expressed in literary masterpieces; sacred texts from various cultures read as literature. CMLIT 141 Religion and Literature (3) (GH;US;IL)(BA) This course meets the Bachelor of Arts degree requirem
CMLIT 142	The Psychology of World Literature 3 Credits	A comparative, psychological approach to world literature from the perspectives of writer, narrative, character, and reader. CMLIT 142 The Psychology of World Literature (3) (GH;IL) (BA) This course meets the Bachelor of Arts
CMLIT 143	Human Rights and World Literature 3 Credits	Human rights violations discussed in tandem with their literary representation, presented in a global and comparative context. CMLIT 143 Human Rights and World Literature (3) (GH;US;IL)(BA) This course meets the Bachelo
CMLIT 147N	Displacement and Migration 3 Credits	Why do we live in a world where so many people must flee their homes to survive? This course focuses on the rise in forced migration in response to violence, persecution, war, natural disasters, poverty, and environmental d
CMLIT 153	International Cultures: Film and Literature 3 Credits	Comparison of narrative techniques employed by literature and film in portraying different cultures, topics may vary each semester. CMLIT 153 International Cultures Through Literature and Film (3) (GH;IL) (BA) This course wil
CMLIT 183Q	From Beast Books to Resurrecting Dinosaurs 3 Credits	In this honors course, we'll explore changing perspectives on life and approaches to studying life. More specifically, we'll examine, through an historical lens, humankind's quest to describe and explain and, ultimately, to exp
CMLIT 184	The Short Story 3 Credits	This course is designed to introduce students to the art of the short story and to acquaint them with some of its most talented writers. During the semester we will read short stories from various cultures and countries, rangin
CMLIT 185	World Novel 3 Credits	Development of the modern novel in the last century (outside the British Isles and the United States); lectures, discussions, readings in translation. CMLIT 185 / ENGL 185 The Modern Novel in World Literature (3) (GH) (BA) Th
CMLIT 191N	Introduction to Video Game Culture 3 Credits	This course is a comparative introduction to the nature and history of video games as cultural artifacts, from Pong to online role-playing. It introduces students to academic discussion on and creative work in new digital form
CMLIT 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMLIT 199	Foreign Study--Comparative Literature 3-6 Credits/Maximum of 6	Course offered on comparative literary topics as part of a foreign-study program.

CMLIT 240Q	Artistic Patronage in Europe 3 Credits	This course surveys the institutions and social networks in which European fine arts were created, consumed and critiqued. Beginning with the medieval period and ranging to the early 20th century, the course will examine th
CMLIT 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CMLIT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CMLIT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMLIT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMLIT 300	Honors Thesis 3 Credits	Individual projects involving research, reading, and writing; preparation of an honors thesis in comparative literature or world literature.
CMLIT 399	Foreign Study--Comparative Literature 3-6 Credits/Maximum of 6	Special course offered on comparative literary topics as part of a foreign-study program.
CMLIT 400Y	Senior Seminar in Literary Criticism and Theory 3 Credits	Discussions of theories of literature, of literary criticism, and particularly of the distinct methods of comparative study; individual projects.
CMLIT 403	Latina/o Literature and Culture 3 Credits	Literary and other forms of cultural expression (film, music, art, and theater) are compared across different Latina/o communities. LTNST (CMLIT) 403 Varieties of Latina/o Cultural Expression (3) (US)(BA) This course meets th
CMLIT 404Y	Topics in Asian Literature 3 Credits	Selected works from the major poetry, fiction, and drama of such countries as India, China, Japan. CMLIT 404 / ASIA 404 Topics in Asian Literature (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. Th
CMLIT 405	Inter-American Literature 3 Credits	This course examines the development of literature in Canada, the United States, Spanish America, the Caribbean area, and Brazil.
CMLIT 406	Women and World Literature 3 Credits	Literature written by women, especially women from non-Western cultures; the spectrum of genres in which women writers have excelled.
CMLIT 408	Heroic Literature 3 Credits	Traditional heroes, their traits and adventures; typical themes and examples chosen from the epics and sagas of world literature.
CMLIT 410	Literary Translation: Theory and Practice 3 Credits	Emphasizing literary translation, a study of the theoretical and practical problems encountered in the processes of translation, transmission, and interpretation. CMLIT 410 Literary Translation: Theory and Practice (3) (IL) (BA)
CMLIT 415	World Graphic Novels 3 Credits	Critical analyses of form, genre, medium, and discourse of the graphic novel and its historical precedents in an international and comparative context. CMLIT 415 World Graphics Novels (3) (GH; US;IL) (BA) This course meet
CMLIT 422	African Drama 3 Credits	Traditional and popular drama forms; modern anglophone and francophone drama; nationalism and social criticism in contemporary African drama.
CMLIT 423	African Novel 3 Credits	From traditional oral narratives to modern autobiograhical, historical, satirical, sociological, and allegorical forms; novelist as social critic.
CMLIT 424	Transnational Korean Literature 3 Credits	Exploration of seminal Korean texts, including poetry, fiction, autobiography, and criticism, from the early twentieth century to the contemporary era. This course provides a comprehensive overview of modern Korean literatur
CMLIT 425	Global Korean Cinema 3 Credits	Exploration of Korean cinema from the early twentieth century to the present, with an emphasis on its global/local dynamics. This course offers an introductory overview of Korean cinema. As we trace its history from the colo
CMLIT 429	New Media and Literature 3 Credits	New media literary genres; critical discussion of creative works in digital media.
CMLIT 435	Cultures of Globalization 3 Credits/Maximum of 3	Cultural and literary effects of the process of globalization, with an emphasis on world literatures and transnationalism. CMLIT 435 Cultures of Globalization (3 per semester/maximum of 6) (IL)This course focuses on the cultu
CMLIT 438	Fantastic Worlds: International and Comparative Perspectives 3 Credits	A comparative, international study of fantastic worlds in literature and visual culture. CMLIT 438 Fantastic Worlds: International and Comparative Perspectives (3) (IL)This course will explore a wide range of "fantastic" narrativ
CMLIT 440	War Stories: The Literature of War 3 Credits	War Stories: The Literature of War (US/IL): an exploration of representations of war in culture. This course considers how war is represented in a variety of cultural artifacts including literature, film, television, video games, mus
CMLIT 446	Postcolonial Literature and Culture 3 Credits/Maximum of 3	Postcolonial literature and theory in a comparative and international context. CMLIT 446 Postcolonial Literature and Culture (3 per semester/maximum of 6) (IL) (BA) This course meets the Bachelor of Arts degree requiremen
CMLIT 448	Literary Cultures of Buddhism 3 Credits	Comparative exploration of various Buddhist literary cultures, from the classical Indian subcontinent to modern movements like the Beats and dalit writing. CMLIT 448 Literary Cultures of Buddhism (3) (IL)This course will pro
CMLIT 449	Literary Cultures of Islam 3 Credits/Maximum of 3	Comparative discussion of the literary cultures of Islam from the seventh century to the present. CMLIT 449 Literary Cultures of Islam (3-6) (IL) (BA) This course meets the Bachelor of Arts degree requirements.This course is a
CMLIT 453	Narrative Theory: Film and Literature 3 Credits	This course explores the relationships between language and the medium of film through analysis of adaptations between other mediums and the cinema, and by analysis of the influences between the discourses of literature
CMLIT 455	Ethics, Justice, and Rights in World Literature 3 Credits	Concepts of ethics, justice, and rights, appearing in world literature and/or film. CMLIT 455 Ethics, Justice, and Rights in World Literature (3) (IL)The course will consider how literature and culture address common concerns,
CMLIT 470	The Modern Novel 3 Credits	Major novels of Joyce, Proust, Kafka, Thomas Mann, Nabokov, and others; their contributions to the art of the novel. CMLIT 470 The Modern Novel (3) (IL) (BA) This course meets the Bachelor of Arts degree requirements.Th
CMLIT 471	Poetry and Poetics 3 Credits	Theoretical and practical concepts in the comparative, global history of poetry and/or poetics. CMLIT 471 Poetry and Poetics (3) (IL)This course explores theoretical and practical concepts in the history of poetry and/or poet
CMLIT 486	Tragedy 3 Credits	Development of tragic drama and its relationship to social background and philosophical theory.
CMLIT 489	Contemporary World Fiction 3 Credits	A survey of developments in contemporary world fiction in translation. CMLIT 489 Contemporary World Fiction (3) (IL) The purpose of this course is to expose students to the developments in world fiction in the last 50 years
CMLIT 490	Video Game Lit Studies 3 Credits	A comparative look at the nature and history of video games as cultural artifacts, from Pond to online role-playing. This course meets the Bachelor of Arts degree requirements. The video game industry is larger than the film i
CMLIT 491	Literary Adaptation: International and Comparative Perspectives 3 Credits/Maximum of 3	A comparative, international study of adapations between literature and other media (film, theater, photography, music). CMLIT 491 Literary Adaptations: International and Comparative Perspectives (3 per semester/maximun
CMLIT 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CMLIT 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CMLIT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CMLIT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMLIT 499	Foreign Study--Comparative Literature 3-6 Credits/Maximum of 6	Advanced courses offered on comparative literary topics as part of a foreign-study program.
CMPMT 419	Computational Materials Science and Engineering 3 Credits	Introduction to computational material science and engineering. Overview of the computational methods for materials, from atomistic to the continuum scale. MATSE 419 Computational Materials Science and Engineering (3)
CMPEH 472	Microprocessors 4 Credits	This course is designed to provide students with strong foundation in microprocessor programming and hardware interfacing both in the classroom and laboratory settings. This course is a required course in the Electrical En
CMPEN 111	Computers and Computer Hardware 1 Credits	A brief orientation to University life and resources and an introduction to computers and computer hardware. CMPEN 111S Computers and Computer Hardware (1)This course contains two components: an orientation to Uni
CMPEN 270	Digital Design: Theory and Practice 4 Credits	Introduction to digital systems and their design. Topics include combinational and sequential devices and circuits, modern design tools and design practices. Students may take only one course for credit for CMPEN 270 or
CMPEN 271	Introduction to Digital Systems 3 Credits	Introduction to logic design and digital systems. Boolean algebra, and introduction to combinatorial and sequential circuit design and analysis. Students may take only one course for credit for CMPEN 270 or 271. CMPEN 2
CMPEN 275	Digital Design Laboratory 1 Credits	Introduction to digital design techniques. Students may take only one course for credit for CMPEN 270 or 275.
CMPEN 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CMPEN 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CMPEN 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPEN 331	Computer Organization And Design 3 Credits	INTRODUCTION TO MAJOR COMPONENTS OF A COMPUTER SYSTEM, HOW THEY FUNCTION TOGETHER IN EXECUTING A PROGRAM, HOW THEY ARE DESIGNED. CMPEN 331 Computer Organization and Design (3

CMPEN 351	Microprocessors 3 Credits	Microprocessor architecture; memory system design; assembly language programming; interrupts; the stacks and subroutines; memory and I/O inter- facing; serial I/O and data communications; microprocessors applications
CMPEN 352W	Embedded Systems Design 3 Credits	Design/development of embedded systems for data acquisition, process control, and special-purpose computing systems; peripheral interfacing, serial/parallel communications and bus systems. CMPEN 352W Microproces
CMPEN 362	Communication Networks 3 Credits	Data transmission, encoding, link control techniques; communication network architecture, design; computer communication system architecture, protocols. CMPEN 362CMPEN (E E) 362 Communication Networks (3)CMPE
CMPEN 371	Advanced Digital Design 3 Credits	Theory, design, and implementation of digital circuits based on combinational and sequential circuits; implementation of designs using hardware description language. CMPEN 371 Advanced Digital Design (3) Students will le
CMPEN 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CMPEN 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CMPEN 396A	Current Technologies in Computer Engineering 1-6 Credits	Investigation of a current technology relevant to computer engineering.
CMPEN 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CMPEN 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPEN 411	VLSI Digital Circuits 3 Credits	Basic building blocks of CMOS design, design rules, chip planning, layout design, system power and timing, simulation of VLSI structures.
CMPEN 416	Digital Integrated Circuits 3 Credits	Analyses and design of digital integrated circuit building blocks, including logic gates, flip-flops, memory elements, analog switches, multiplexers, and converters. CMPEN 416CMPEN 416 Digital Integrated Circuits (3)CMPE
CMPEN 417	Digital Design Using Field Programmable Devices 3 Credits	Field programmable device architectures and technologies; rapid prototyping using top down design techniques; quick response systems. CMPEN 417CMPEN (E E) 417 Digital Design Using Field Programmable Devices (3)F
CMPEN 431	Introduction to Computer Architecture 3 Credits	Introduction to computer architecture. Memory hierarchy and design, CPU design, pipelining, multiprocessor architecture. CMPEN 431 Introduction to Computer Architecture (3) This course will introduce students to the arch
CMPEN 441	Operating Systems 3 Credits	Resource management in computer systems. Process scheduling, memory management, file system design, I/O management, Unix operating system.
CMPEN 454	Fundamentals of Computer Vision 3 Credits	Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, object recognition, and dynamic scene analysis. CMPEN 454CMPEN 454 Fundamentals of Computer Vision (3)CM
CMPEN 455	An Introduction to Digital Image Processing 3 Credits	Overview of digital image processing techniques and their applications; image sampling, enhancement, restoration, and analysis; computer projects. E E (CMPEN) 455 An Introduction to Digital Image Processing (3) E E/CMP
CMPEN 461	Communication Networks 3 Credits	Data transmission, encoding, link control techniques, network architecture, design, protocols, and multiple access. CMPEN 461 Communication Networks (3) This course introduces students to fundamental concepts and pr
CMPEN 462	Wireless Communications Systems and Security 3 Credits	This course explores the fundamental concepts and engineering processes of wireless communication systems, sensors, and security algorithms through the design, implementation, and evaluation of next generation wireles
CMPEN 472	Microprocessors and Embedded Systems 3 Credits	Microprocessors: architecture, design, assembly language, programming, interfacing, bus structure, and interface circuits and their use in embedded systems. CMPEN 472 Microprocessors and Embedded Systems (3) In thi
CMPEN 473	Microcomputer Laboratory 3 Credits	Design of digital systems using microprocessors. CMPEN 473 Microcomputer Laboratory (3) This laboratory course provides senior students with both theory and practice in designing, implementing, and debugging micropr
CMPEN 475	Functional Verification 3 Credits	Introduce concepts, methods, and technology for effective functional verification of modern electronic systems. CMPEN 475 Functional Verification (3)Verifying design correctness of increasingly complex system-on-chip des
CMPEN 480	Computer Engineering Design 3 Credits	Engineering design and modeling, engineering economy, project planning, capstone project selections, and technical communication skills. CMPEN 480 Computer Engineering Design (3) This course prepares senior comput
CMPEN 481	Computer Engineering Project 3 Credits	Group or individual design projects in the area of computer engineering.
CMPEN 482W	Computer Engineering Project Design 3 Credits	Computer engineering design project, project management, documentation, reporting, and group and individual communication skills. CMPEN 482W Computer Engineering Project Design (3) The two principle goals of CMP
CMPEN 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CMPEN 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CMPEN 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CMPEN 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CMPEN 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CMPEN 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPET 5	Engineering Methods in Engineering Technology 1 Credits	Introduction to experimental and computer methods in engineering technology; applications of experimental concepts through student involvement in computer exercises. CMPET 005 Engineering Methods in Engineering Te
CMPET 117	Digital Electronics 3 Credits	Fundamentals of digital circuits, including logic circuits, boolean algebra, Karnaugh maps, counters, and registers. CMPET 117 Digital Electronics (3) Digital Electronics covers fundamentals of both combinatorial and sequen
CMPET 120	Digital Electronics Laboratory 1 Credits	Laboratory study of digital electronics circuits. CMPET 120 Digital Electronics Laboratory (1) Digital Electronics Laboratory is a one credit laboratory that meets for a single 2-hour session each week. It is normally taken conc
CMPET 211	Embedded Processors and DSP 3 Credits	Introduction to micro-controllers and embedded controllers with applications, including concepts of digital signal processing. CMPET 211 Embedded Processors and DSP (3)CMPET 211 provides students with a basic unde
CMPET 301	Algorithmic Processes for Electrical Systems 3 Credits	Algorithms, languages, notations and applications of object- and procedure- oriented languages to electrical and electronic problem solving. CMPET 301 Algorithmic Processes for Electrical Systems (3) Algorithmic Processe
CMPET 333	Computer Networking 3 Credits	Introduction to Local Area Networks (LANs) and Wide Area Networks (WANs), including transmission mediums, protocols, topologies, software, and hardware. CMPET 333 Computer Networking (3) The purpose of the course
CMPET 355	Intermediate Microprocessors and Microcomputers 3 Credits	Microprocessor architecture and assembly language programming. Hardware and software of basic microprocessors. Input/output structure in microcomputers. CMPET 355 CMPET 355 Intermediate Microprocessors and I
CMPET 401	Data Communication and Networking 3 Credits	Signal representations, communication techniques, interfacing, serial and parallel communication, modems, error detection, LAN and WAN protocols. CMPET 401CMPET 401 Data Communication and Networking (3) This co
CMPET 402	Data Communication and Networking Laboratory 1 Credits	Network operating systems, LAN and WAN protocols, serial and parallel communications, modems, FAX, and other interfacing methods.
CMPET 403	Switching Circuit Design 4 Credits	Analysis and design of advanced combinational and sequential circuits using IC logic devices and PLD's while promoting the use of software development tools. CMPET 403 Switching Circuit Design (4) This course is desigr
CMPET 456	Advanced Microprocessors, High Level Interfacing 3 Credits	Operating systems; systems programming; high-level application programming; high-level hardware and software protocols; serial and parallel digital communications. CMPET 456 CMPET 456 Advanced Microprocessors, H
CMPET 457	Software Engineering 3 Credits	Application of modern techniques in software development, including program design based on new methods and tools. CMPET 457 CMPET 457 Software Engineering (3) Software engineering is a required course for senio
CMPSC 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMPSC 100	Computer Fundamentals and Applications 3 Credits	Introduction to computer fundamentals and applications to data processing environments.
CMPSC 101	Introduction to Programming 3 Credits	This course introduces the fundamental concepts and processes of solving computational problems through the design, implementation, testing, and evaluation of basic computer programs. The concepts include basic comp
CMPSC 102	Introduction to Visual Programming 3 Credits	Problem solving for non-majors; high-level language programming; controlstructures, functions, parameters, recursion, arrays, records/ structures; verification; debugging; documentation.
CMPSC 111	Logic for Computer Science 1 Credits	An introduction to logic and its application to problem solving and computer science. CMPSC 111S Logic for Computer Science (1)Computer Science provides the fundamental tools for analyzing problems and designing so
CMPSC 121	Introduction to Programming Techniques 3 Credits	Design and implementation of algorithms. Structured programming. Problem solving techniques. Introduction to a high-level language, including arrays, procedures, and recursion.
CMPSC 122	Intermediate Programming 3 Credits	Object-oriented programming, recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), the basics of algorithmic analysis, and an introduction to the principles of language
CMPSC 122H	Intermediate Programming 3 Credits	Object-oriented programming, recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), the basics of algorithmic analysis, and an introduction to the principles of language
CMPSC 131	Programming and Computation I: Fundamentals 3 Credits	This course introduces the fundamental concepts and processes of solving computational problems through the design, implementation, testing and evaluation of efficient and robust computer programs. The concepts incluc
CMPSC 132	Programming and Computation II: Data Structures 3 Credits	This course builds upon the foundations of programming and computation by introducing and studying the data structures and programming language features that support the design and construction of large-scale softwar
CMPSC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMPSC 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPSC 200	Programming for Engineers with MATLAB 3 Credits	This course introduces basic programming concepts including algorithm development, simple data types, number representation, control structures, functions, plotting, and basic numerical analysis techniques, all in the cont
CMPSC 201	Programming for Engineers with C++ 3 Credits	Development and implementation of algorithms in a procedure-oriented language, with emphasis on numerical methods for engineering problems. A student may receive credit for only one of the following courses: CMPSC
CMPSC 203	Introduction to Spreadsheets and Databases 4 Credits	Design, use, and programming of spreadsheets and data bases with applications from a range of disciplines.
CMPSC 204	Introduction to Computational Sciences Programming 3 Credits	This introductory programming course teaches the foundations of programming and computational problem solving for scientific and engineering domains. The emphasis of the course is on computation as a problem-solving

CMPSC 205	Intermediate Computational Sciences Programming 3 Credits	This course introduces intermediate concepts of programming including object-oriented programming, dynamic data structures, and data visualization and data modeling. The core of this course covers data analysis, efficien
CMPSC 208	Technical Game Development 3 Credits	Introduction to the tools and techniques required to implement games in a virtual environment. GAME 250 / CMPSC 208 Technical Game Development. First, students learn about game and player elements by creating chara
CMPSC 221	Object Oriented Programming with Web-Based Applications 3 Credits	The course covers advanced object-oriented principles and their application to web-based, net-centric computing. Major topics include virtual machines, intermediate code generation (Java-specific), graphical user interface
CMPSC 222	Advanced Data Structures and Algorithms in C 3 Credits	This course provides a practical introduction to the design, implementation and analysis of advanced data structures and algorithms, using the C programming language and its related command line tools. Data structures in
CMPSC 263	Blockchain and Modern Web Development 3 Credits	This course covers the technical aspects and development behind blockchain technology with a primary focus on software implementation including Web3 development and the basics of JavaScript. Students will be taught t
CMPSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CMPSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMPSC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPSC 301	Event Driven Programming for Computational Sciences 3 Credits	This course focuses on the development of event-driven applications for problems found in science and engineering disciplines using object-oriented programming concepts, application programming interfaces, and event-d
CMPSC 302	Intermediate Visual Programming 3 Credits	OO programming, visual programming, classes, objects, ADTs, inheritance, recursion, regular expressions, user-defined controls, documentation, testing, verification, productivity tools. CMPSC 302 Intermediate Visual Progr
CMPSC 311	Introduction to Systems Programming 3 Credits	Unix system programming in C; organization of programs and data; program analysis and support tools; software standards; common system functions. CMPSC 311 CMPSC 311 Introduction to Systems Programming (3) Sy
CMPSC 312	Computer Organization and Architecture 3 Credits	Data representation, digital logic, instruction set/control logic, machine/ assembly languages, advanced architectures, memory hierarchy, I/O devices, overall system design.
CMPSC 313	Assembly Language Programming 3 Credits	Program design, addressing modes, subroutines, parameter passing, stacks, bit manipulation, text processing, DOS functions, macros, I/O, high level language interfaces. CMPSC 313CMPSC 313 Assembly Language Prog
CMPSC 330	Advanced Programming in C++ 3 Credits	In-depth study of various programming paradigm including procedural, object oriented, and generic programming in C++ programming language. The primary goals of this course are (1) to provide students with an in-depth k
CMPSC 335	Fundamentals of Communication Networks 3 Credits	Introduction to the composition of communciation networks, including trans- mission mediums and protocols, transfer methods, topologies and software, and communications hardware.
CMPSC 348	Data Science and Machine Learning for Computational Sciences 3 Credits	This course will introduce students from different engineering and sciences disciplines to the data driven problem solving methods using machine learning techniques including clustering, classification, data modeling, and da
CMPSC 360	Discrete Mathematics for Computer Science 3 Credits	Discrete mathematics and foundations for modern computer science. Topics include sets, relations, logic, algorithms, graphs, finite state machines and regular expressions.
CMPSC 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CMPSC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMPSC 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CMPSC 410	Programming Models for Big Data 3 Credits	Recommended Preparations: DS 310; CMPSC 448 This course introduces modern programming models and related software stacks for performing scalable data analytics and discovery tasks over massive and/or high dime
CMPSC 412	Data Structures Lab 1.5 Credits	Programming with common data structures; recursion; stacks, queues, dictionaries, priority queues; string searching and manipulation; sorting; trees; combinatorics.
CMPSC 413	Algorithms Lab 1.5 Credits	Programming with common algorithm design techniques; divide and conquer, greedy method, dynamic programming, and tree and graphy traversals.
CMPSC 414	Contest Programming 1 Credits/Maximum of 4	This course provides hands-on practice with a wide range of computer science topics that are used to solve programming contest questions. These topics include common data structures; strings; sorting; combinatorics; nu
CMPSC 421	Net-centric Computing 3 Credits	This course introduces JavaScript and AJAX for creating Rich Internet Applications, and XML for client-server communication and Web Services. CMPSC 421 Net-centric Computing (3) This course will build on the client-ser
CMPSC 430	Database Design 3 Credits	The main goal of this course is to explore the relational database model, with special emphasis on the design and querying of relational databases. Secondary goals include exploration of the mathematical basis for relational
CMPSC 431W	Database Management Systems 3 Credits	Topics include: conceptual data modeling, relational data model, relational query languages, schema normalization, database/Internet applications, and database system issues.
CMPSC 432	Exploratory Data Mining 3 Credits	This course teaches fundamental concepts, algorithms and problem-solving techniques for exploratory data mining and their applications, with an emphasis on the algorithmic aspects. The course covers extensively the desi
CMPSC 436	Communications and Networking 3 Credits	Data transmission, basic signaling, data encoding, error control, communication protocols, security, network topologies, routing, switching, internetworking, emerging high speed networks. CMPSC 436CMPSC 436 Commun
CMPSC 438	Computer Network Architecture and Programming 3 Credits	This course introduces elements and architecture of computer and data communication networks, demonstrates the fundamental principles of computer networking, and provides practical experience in the network applicati
CMPSC 440	Data-driven Security Analytics 3 Credits	Today's security event monitoring and correlation tools are being taxed more than ever before. The constant deluge of data being output by the many devices in our security infrastructures and input into log managers, SIEM
CMPSC 441	Artificial Intelligence 3 Credits	Problem solving, search techniques including local search and genetic algorithms, knowledge representation, planning, learning, and neural networks. CMPSC 441 Artificial Intelligence (3) The primary goals of this course are
CMPSC 442	Artificial Intelligence 3 Credits	This course provides an overview of the foundations, problems, approaches, implementation, and applications of, artificial intelligence. Topics covered include problem solving, goal-based and adversarial search, logical, prob
CMPSC 443	Introduction to Computer and Network Security 3 Credits	Introduction to theory and practice of computer security with an emphasis on Internet and operating system applications.
CMPSC 444	Secure Programming 3 Credits	Secure software design principles/practices, common threats, applied cryptography, trust management, input validation, OS-/programming language- specific issues, software validation. CMPSC 444 Secure Programming (3
CMPSC 445	Applied Machine Learning in Data Science 3 Credits	Applied machine learning techniques are used in many different areas, such as the classification, visualization and analysis of data, clustering, and understanding of natural languages for human-computer interactions. These
CMPSC 446	Data Mining 3 Credits	Data Mining is the process of discovering patterns, correlations, and trends, in large data sets. This course is designed to provide an overview of the data mining process, with an emphasis on data management, pattern disc
CMPSC 447	Software Security 3 Credits	This course explores the fundamental concepts and engineering processes of software development and testing to produce software that is designed for security. This course is intended as a senior-level course for computat
CMPSC 448	Machine Learning and Algorithmic AI 3 Credits	Evaluation and use of machine learning models; algorithmic elements of artificial intelligence.
CMPSC 450	Concurrent Scientific Programming 3 Credits	Problems of synchronization, concurrent execution, and their solution techniques. Design and implementation of concurrent software in a distributed system.
CMPSC 451	Numerical Computations 3 Credits	ALGORITHMS FOR INTERPOLATION, APPROXIMATION, INTEGRATION, NONLINEAR EQUATIONS, LINEAR SYSTEMS, FAST FOURIER TRANSFORM, AND DIFFERENTIAL EQUATIONS EMPHASIZING COMPUTATIONAL P
CMPSC 455	Introduction to Numerical Analysis I 3 Credits	Floating point computation, numerical rootfinding, interpolation, numerical quadrature, direct methods for linear systems. Students may take only one course for credit from MATH 451 and MATH 455.
CMPSC 456	Introduction to Numerical Analysis II 3 Credits	Polynomial and piecewise polynomial approximation, matrix least squares problems, numerical solution of eigenvalue problems, numerical solution of ordinary differential equations.
CMPSC 457	Computer Graphics Algorithms 3 Credits	Graphics systems/hardware, color models, transformations, projections, clipping, hidden line/surface removal, aliasing, parametric curves/surfaces, 3D modeling animation. CMPSC 457CMPSC 457 Computer Graphics Algo
CMPSC 458	Fundamentals of Computer Graphics 3 Credits	Fundamentals of computer graphics: input/output devices, transformation, projection, clipping, hidden line/surface elimination.
CMPSC 460	Principles of Programming Languages 3 Credits	Design and implementation of high level programming languages and survey of language paradigms including imperative, functional, and object-oriented programming. CMPSC 460 Principles of Programming Languages (3)
CMPSC 461	Programming Language Concepts 3 Credits	Fundamental concepts of programming language design, specifications, and implementation; programming language paradigms and features; program verification.
CMPSC 462	Data Structures 3 Credits	In-depth theoretical study of data structures such as balanced trees, hash tables, priority queues, B-trees, binomial heaps, and Fibonacci heaps. CMPSC 462 Data Structures (3) The primary goals of this course are (1) to pro
CMPSC 463	Design and Analysis of Algorithms 3 Credits	Recurrences, algorithms design techniques, searching, sorting, selection, graph algorithms, NP-completeness, approximation algorithms, local optimization algorithms. CMPSC 463 Design and Analysis of Algorithms (3) The
CMPSC 464	Introduction to the Theory of Computation 3 Credits	Computability/Complexity: finite automata, regular & context-free languages, Turing machines, Church-Turing Thesis, undecidability, reducibility, completeness, time/space complexity, P versus NP. CMPSC 464 Introduction t
CMPSC 465	Data Structures and Algorithms 3 Credits	Fundamental concepts of computer science: data structures, analysis of algorithms, recursion, trees, sets, graphs, sorting.
CMPSC 466	Introduction to Quantum Computation 3 Credits	In this course, we will focus on the benefits brought by quantum mechanics to information processing and computation tasks. The content of this course is theoretical, i.e., we will give an overview of various topics in quantur
CMPSC 467	Factorization and Primality Testing 3 Credits	Prime sieves, factoring, computer numeration systems, congruences, multiplicative functions, primitive roots, cryptography, quadratic residues. Students who have passed MATH 465 may not schedule this course.
CMPSC 469	Formal Languages with Applications 3 Credits	Regular, context free, recursive, and recursively enumerable languages; associated machine models; applications. CMPSC 469 Formal Languages with Applications (3) The primary goal of this course is to explore formal lang
CMPSC 470	Compiler Construction 3 Credits	Compiler design and implementation; scanning, parsing, semantic analysis, optimization (including static analysis), code generation, garbage collection, and error detection. CMPSC 470 Compiler Construction (3) The primar
CMPSC 471	Introduction to Compiler Construction 3 Credits	Design and implementation of compilers; lexical analysis, parsing, semantic actions, optimization, and code generation.
CMPSC 472	Operating System Concepts 3 Credits	Theoretical and practical issues of operating systems design and implementation, process management, concurrent programming, memory management, scheduling, I/O, and security. CMPSC 472CMPSC 472 Operating Sy
CMPSC 473	Operating Systems Design & Construction 3 Credits	Design and implementation of computer operating systems; management of various system resources: processes, memory, processors, files, input/output devices.

CMPSC 474	Operating System & Systems Programming 3 Credits	Operating Systems overview and principles; processes and signals; concurrency and synchronization; memory and file management; client-server computing; scripts; systems-programming.
CMPSC 475	Applications Programming 3 Credits	Development of software for devices including smart phones, tablets, handheld units, and other general purpose computing platforms.
CMPSC 476	Systems Debugging 3 Credits	Debugging is a practical and essential skill for any computer scientist to be able to properly diagnosis and fix problems (i.e., bugs) in systems and/or code. The goal of this course is for students to develop debugging skills th
CMPSC 483W	Software Design Methods 3 Credits	Applications of scientific knowledge and methods in the design and construction of computer software using engineering concepts.
CMPSC 484	Computer Science Senior Project I 2 Credits	Computer science capstone project with documentation emphasis. CMPSC 484 CMPSC 484 Computer Science Senior Project I (2) This course is phase one preparation for completing a design for a project to serve as the c
CMPSC 485W	Computer Science Senior Project II 3 Credits	Computer science capstone project with documentation emphasis.
CMPSC 487W	Software Engineering and Design 3 Credits	Software development process, life cycle; requirements analysis, specification, design, prototyping, testing, project management, and documentation. CMPSC 487W Software Engineering and Design (3) The primary goal of
CMPSC 488	Computer Science Project 3 Credits	Project design and implementation with an emphasis on team work, documentation, and the employment and integration of computer science concepts. CMPSC 488 Computer Science Project (3) This class provides a hand
CMPSC 489	Deep Learning for Computer Vision 3 Credits	Deep learning is a branch of machine learning which learns rich data representations simultaneously in the process of neural network optimization. Deep learning has greatly advanced state-of-the-art performance in compute
CMPSC 494	Senior Honors Thesis 1-6 Credits/Maximum of 6	Supervised Honors thesis research in computer science and engineering.
CMPSC 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experience, practica, or internships. Written and oral critique of activity required.
CMPSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CMPSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CMPSC 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CC 200	Introduction to Corporate Communication 3 Credits	As a field, Corporate Communication involves taking organizational goals and translating them into communication strategies and tactics inside and outside the organization as well as managing communication processes on
CC 401	Internal Communication 3 Credits	Explores the various ways organizations communicate with internal stakeholders, including senior leaders, managers, and frontline employees. CC 401 focuses on strategic communication processes between the organizatio
CC 402	External Communication 3 Credits	Explores the various ways organizations communicate with external stakeholders. CC 402 focuses on the process of communication with external stakeholders. An integral part of Corporate Communication, external commu
CC 404	Risk and Crisis in Corporate Communication 3 Credits	Explores crisis communication theory and practice as related to internal and external processes. Every organization will encounter crisis. Understanding how to communicate before, during, and after a crisis can dramatically
CC 405	Strategic Speaking 3 Credits	This course addresses the design and delivery of strategic spoken word communications with stakeholders inside and outside organizations. CC 405 concentrates on strategic spoken word communications used to advance
CC 406	Social Media in Corporate Communication 3 Credits	Explores the internal and external functions of social media in organizations, with a focus on organizational-stakeholder relationships. Social media allows organizations to connect and build dialogic relationships with stakeho
CC 490W	Seminar in Corporate Communication 3 Credits	Explores and applies concepts and theories to various cases, emphasizing written development of strategies relevant to the internal and external organization. This course explores Corporate Communication as it encompass
CC 495	**SPECIAL TOPICS** 3 Credits	CC 495A Internship in Corporate Communication (3) Communications experience in businesses or agencies that may include activities in writing, media production, planning, public relations, advertising, employee relations,
CC 495A	Internship in Corporate Communication 3 Credits/Maximum of 3	CC 495A Internship in Corporate Communication (3) Communications experience in businesses or agencies that may include activities in writing, media production, planning, public relations, advertising, employee relations,
CNED 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 100	Effective Career Decision-Making 3 Credits	Examination of internal and external factors that contribute to career development to assist students undecided about major or career. CN ED 100CN ED 100 Effective Career Decision-Making (3) CN ED 100 teaches student
CNED 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 200	Peer Mentoring 1 Credits	This course will prepare students for the roles and responsibilities of being a Peer Mentor. CN ED 200 Peer Mentoring (1) "Peer Mentoring" is designed to present to the student the basic principles, characteristics, and benef
CNED 280	Job/Internship Search and Professional Skills 1 Credits	This course will teach students how to implement a career strategy to effectively secure a job/internship.
CNED 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CNED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 301	Student Organization Management 2 Credits	Exploration and development of leadership and group process skills necessary for effectively managing student organizations in higher education settings.
CNED 303	Career Search Strategies for Educators 1 Credits	An aid in preparing students with information helpful for entry into education and alternative job markets.
CNED 304	Education of the Peer Assistant 3 Credits	Student development theories: skill development in listening, informing, and referring culturally diverse peers in individual and group situations.
CNED 393	Peer Support Counseling 2 Credits/Maximum of 8	CNED 393 is a course that prepares and supports students in their role as a Peer Counselor (PC) on campus to help support fellow students as they navigate difficult decisions, points of crisis, or everyday aspects of student
CNED 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 401	Foundations of Chemical Dependency Counseling 3 Credits	An overview of diagnosis and assessment, models for chemical dependency prevention, counseling, and recovery; contexts of chemical dependency treatment.
CNED 404	Group Procedures in Guidance and Counseling 3 Credits	The nature and functioning of groups in educational and agency settings. Provides prospective counselors with experience in the group process.
CNED 416	Interpersonal Relationships and Alcohol and Other Drugs (AOD) Dependency 3 Credits	This course examines families with chemically dependent members, dynamics, appropriate interventions, and treatment.
CNED 420	Chemical Dependency: Youth at Risk 3 Credits	Study of youth who are at-risk of developing chemical dependency including the characteristics and factors related to chemical dependency.
CNED 421	Counseling Strategies for Preventing Chemical Dependency 3 Credits	Examines helping professional's role in primary and secondary prevention of substance abuse, and related problems like delinquency, suicide, and pregnancy.
CNED 422	Foundations of Addictions Counseling 3 Credits	Study of the fundamental principles of counseling individuals with a wide variety of addictions. CN ED 422 Foundations of Addictions Counseling (3)Students explore the fundamental principles of addictions counseling from
CNED 423	Student Assistance Programs 3 Credits	Exploration of early stages of adolescent "at-risk" behavior and skills for student assessment and intervention within schools and communities.
CNED 424	Facilitating Career Development 3 Credits	This course provides individuals with relevant skills and knowledge to assist others in planning careers and obtaining meaningful work. CN ED (WF ED) 424 Facilitating Career Development (3) This course provides individuals
CNED 430	Couples and Family Counseling 3 Credits	The theory and practice of counseling with couples and families emphasizing family development and major intervention approaches. CN ED 430 Couples and Family Counseling (3)Students study the theory and practice of
CNED 431	Counseling and Teaching Youth at Risk 3 Credits	This course is focused on how to counsel and/or teach youth at risk for a variety of social, emotions, and educational problems. CN ED 431 Counseling and Teaching Youth at Risk (3)This course is designed to provide partic
CNED 432	Ethical, Legal, and Professional Issues in Counseling 3 Credits	Examination of the current ethical and legal issues related to professional counselors and counseling. CN ED 432 Ethical, Legal, and Professional Issues in Counseling (3)Participants explore an overview of ethical and legal i
CNED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CNED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CNED 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

CRIMJ 12	Criminology 3 Credits/Maximum of 3	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. A key focus of the class is exa
CRIMJ 12H	Honors Criminology 3 Credits	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. This honors version of Introdu
CRIMJ 13	Juvenile Delinquency 3 Credits	Examines juvenile conduct, causes of delinquency, current methods of treatment; and agencies concerned with delinquency. Introduces students to the major theories, concepts, and research findings related to juvenile delin
CRIMJ 100	Introduction to Criminal Justice 3 Credits	Criminal Justice 100 is an overview of the United States criminal justice system and the major components of police, courts and corrections. Students will engage in reviews of, evaluate and consider legal foundations, types
CRIMJ 113	Introduction to Law 3 Credits	Introduction to law in society with a focus on criminal law, judicial code, laws of sentencing and corrections, ciminal procedure. CRIM (CRIMJ) 113 Introduction to Law (3) Introduction to the law is designed to provide CLJ m
CRIMJ 150N	Safe and Sound: The Intersection of Criminal Justice and Public Health 3 Credits	This course will consider the overlapping responsibilities and epistemologies of criminal justice and public health. Both fields concerned with the promotion of population welfare, the public health and criminal justice systems
CRIMJ 159	History of the FBI 3 Credits	Chronological survey of the History of the FBI since its founding in 1908, focused on the evolution of Federal law enforcement, bureaucracy, the increasing power of the Executive branch, the targeting of various minority grou
CRIMJ 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CRIMJ 200	Introduction to Security and Loss Control 3 Credits	A general introduction to the field of private security and asset protection. CRIMJ 200CRIMJ 200 Introduction to Criminal Justice (3) (GS)(BA) This course meets the Bachelor of Arts degree requirements. This course focuses
CRIMJ 205N	Critical Race Theory in the Humanities and Social Sciences 3 Credits	This course closely examines the place and power of race in America. By tracing the history of how race works in particular American institutions, such as public education, criminal justice, and federal housing, students will g
CRIMJ 210	Policing in America 3 Credits	Police organization and operations in America.
CRIMJ 220	Courts and the Prosecution Process 3 Credits	Purpose and function of criminal courts in society, organization, jurisdiction and staffing; prosecution, adjudication, and sentencing of offenders.
CRIMJ 221	Issues in the American Criminal Justice System 3 Credits	Examination of the models of the criminal process, functions of the justice system, and approaches to crime and punishment.
CRIMJ 230	Corrections in America 3 Credits	Punishment and treatment of sentenced offenders, correctional institution organization, staffing, inmates, and subcultures.
CRIMJ 234	Fundamental Techniques of Scientific Criminal Investigation 3 Credits	Traditional and innovative technical approaches utilized by law enforcement scientists; capabilities and limitations of technical techniques highlighted. CRIMJ 234 CRIMJ 234 Fundamental Techniques of Scientific Criminal In
CRIMJ 240W	Field Research in the Criminal Justice 4 Credits	Field research and observational strategies appropriate to the identification, investigation, and analysis of research questions in criminal justice. CRIMJ 240W CRIMJ 240W Field Research in Criminal Justice (4) Administratio
CRIMJ 250W	Research Methods in Criminal Justice 3 Credits	Fundamental concepts of social science research including design, measurement, sampling, and interpretation of the study of crime, law, and justice.
CRIMJ 260	Statistical Analysis for the Social Sciences 3 Credits	Methods of collection, presentation, and analysis of quantitative data in the social science; procedures, interpretation, and application. CRIMJ 260 Statistical Analysis for the Social Sciences (3)This course covers the theory
CRIMJ 290	Introduction to Internship Experience 1-3 Credits	Planning and preparation for field experience in a criminal justice agency setting. This course provides the student learner with an intimate understanding of the academic requirements of the criminal justice internship. Stude
CRIMJ 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CRIMJ 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CRIMJ 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CRIMJ 304	Security Administration 3 Credits	Interdisciplinary analysis of security and loss prevention; its administration, role in crime control and prevention, and relationship to criminal justice.
CRIMJ 310	Forensic Science I 3 Credits	Presentation of the techniques, skills, and limitations of modern crime laboratory. CRIMJ 310 CRIMJ 310 Forensic Science I (3) Presentation of techniques, the principles underlying the techniques, skills and limitations of the
CRIMJ 345	Criminal Justice and the Community 3 Credits	Justice agencies and the community's crime prevention and participation strategies; community involvement in policy development.
CRIMJ 389	Gangs and Gang Behavior 3 Credits	The history, structure, and practices of gangs in America as well as societal reaction to them. CRIMJ 389CRIMJ 389 Gangs and Gang Behavior (3) This class takes a look at gangs: their history, structure, activities, and pract
CRIMJ 406	Sociology of Deviance 3 Credits	Theory and research concerning deviant behaviors and lifestyles viewed as significant departures from a group's normative expectations. SOC (CRIMJ/CRIM) 406 Sociology of Deviance (3) (BA) This course meets the Bache
CRIMJ 407	Victimology 3 Credits	This course will explore the legal, emotional, and social responses to the process of victimization by offenders and third parties. CRIMJ 407 Victimology (3) (US) Victimology studies the victim-offender relationship. Victimizatio
CRIMJ 408	Police Administration 3 Credits	Principles of administration as they relate to a police organization; and policy development. CRIMJ 408CRIMJ 408 Legal Aspects of Law Enforcement (3) This course is one of the law enforcement offerings directed at studer
CRIMJ 409	White Collar Crime 3 Credits	In this course students will learn what kinds of offenses constitute the various types of white collar crime including occupational crime, corporate crime, governmental crime, state-corporate crime, avocational white collar cri
CRIMJ 410	The Pennsylvania Court System 3 Credits	Tracing the steps of criminal cases through the investigative stage, arrest, trial, sentencing and appellate review in Pennsylvania.
CRIMJ 412	Crime, Social Control, and the Legal System 3 Credits	Legal and extralegal control; public opinion on crime; criminal justice and correctional processes; legal sanctions; control strategies. Field trip.
CRIMJ 413	Advanced Criminological Theory 3 Credits	This course provides an in-depth look at theories of crime and examines influential empirical studies designed to these theories. CRIMJ 413CRIMJ (CRIM/SOC) 413 Advanced Criminological Theory (3)Advanced criminologic
CRIMJ 414	Criminal Careers and the Organization of Crime 3 Credits	Research on and theory of criminal careers and crime organizations, emphasizing recruitment and disengagement; offender characteristics and lifestyles; policy implications.
CRIMJ 415	Drug Control Policy in Comparative Perspective 3 Credits	Examines the history of drug control policy in the United States; comparisons and contrasts with other countries' experiences. CRIMJ 415 CRIMJ (PUBPL) 415 Drug Control Policy in Comparative Perspective (3)This course
CRIMJ 416	The Death Penalty 3 Credits	The death penalty is the ultimate punishment in the criminal justice systems in the world. The United Sates is one of the few democratic nations that still uses this punishment. The death penalty is also one of the most centra

CRIMJ 417	Hate Crime, Extremism, and Terrorism 3 Credits/Maximum of 3	This course is primarily a discussion-based seminar, engaging in a critical analysis of hate crime, extremism, and terrorism from a criminological perspective. First, students will engage with issues related to genocide and the
CRIMJ 420	Criminal Law and Procedure 3 Credits	Common law and statutory crimes; constitutional rights of accused persons, liability of criminal justice professionals.
CRIMJ 421	Violent Crime in the United States 3 Credits	The impact of violent crime on victims, their families, and communities; the police process as it relates to violent crime. CRIMJ 421CRIMJ (CRIM) 421 Violent Crime (3)This course will examine the nature, frequency, and caus
CRIMJ 422	Victimization 3 Credits	Examines the history, how victimization is measured/studied in social sciences, public policy implications of victimization movement in U.S. CRIM 422 / CRIMJ 422 Victimization (3) Victimology has emerged as an important a
CRIMJ 423	Sexual and Domestic Violence 3 Credits	Legal, sociological, and psychological perspectives on sexual and domestic violence. CRIMJ 423 / CRIM 423 / WMNST 423 Sexual and Domestic Violence (3) (US) This course investigates violence against women, specifical
CRIMJ 424	Drugs, Crime, and Society 3 Credits	Why do people take drugs? Why and how does society attempt to control drug use and distribution? What is the association between drugs and crime? Exploring questions such as these will be central in CRIM 429. The foc
CRIMJ 424W	Drugs and Crime 3 Credits	Analysis of international narcotics trafficking in the twentieth century.
CRIMJ 425	Organized Crime 3 Credits	This course examines organized crime in terms of historical antecedents, structure, related theories, and policy issues. CRIM (CRIMJ) 425 Organized Crime (3) This course will provide students with a historical and theoretica
CRIMJ 426	Special Offender Types 3-6 Credits/Maximum of 6	Study of special offender types; relationships with criminal justice system (drug abuse, victimless crime, white collar crime considered different semesters).
CRIMJ 430	Alternatives to Incarceration 3 Credits	Control and treatment of offenders in the community, probation and parole organizations, diversion programs, innovative sentences, supervision techniques. This course introduces students to the system of "criminal justice"
CRIMJ 431	Offender and Prisoner Rights 3 Credits	The identification of correctional problems and the setting of objectives as reflective of court rulings, legislative change, and administrative law.
CRIMJ 432	Crime and the American Court System 3 Credits	This course examines the American court system including structure and the way courts process offenders with special focus on sentencing. CRIM (CRIMJ) 432 Crime and the American Court System (3) CRIM/CRIMJ 432, (
CRIMJ 435	Border Security 3 Credits	This course provides knowledge about government organizations charged with American border security, guiding laws and policies. CRIMJ 435 Border Security (3) The Border Security course provides depth of knowledge o
CRIMJ 439	The Politics of Terrorism 3 Credits	Analysis of political terrorism as a violent alternative for peaceful change and traditional warfare in the nuclear age.
CRIMJ 441	The Juvenile Justice System 3 Credits	Historical and contemporary view of the juvenile justice system. Focus on analyzing components of the system, their interactions, processing, and handling of youths. CRIMJ 441 CRIMJ (CRIM) 441 Delinquency and Juvenile
CRIMJ 441W	The Juvenile Justice System 3 Credits	Historical and contemporary view of the juvenile justice system. Focus on analyzing components of the system, their interactions, processing, and handling of youths.
CRIMJ 450W	Senior Seminar 3 Credits/Maximum of 6	Capstone course exploring past, current and future developments in criminal justice.
CRIMJ 451	Race, Crime, and Justice 3 Credits	This course focuses on the significance of race, class, and ethnicity to criminal justice processing and criminal offending. CRIMJ 451 CRIMJ (CRIM) 451 Race, Crime, and Justice (3) (US)(BA) This course meets the Bachelor
CRIMJ 453	Women and the Criminal Justice System 3 Credits	This course focuses on the experiences of women as offenders, victims, and professionals in the criminal justice system. CRIMJ 453 / CRIM 453 / WMNST 453 Women and the Criminal Justice System (3) (US) The course wil
CRIMJ 455	Contemporary Issues in Law Enforcement 3 Credits/Maximum of 3	This course will examine some of the current and most pertinent issues facing law enforcement today. This course will examine some of the current and most pertinent issues facing law enforcement today. The course is desi
CRIMJ 457	American Guns: History, Law & Criminal Justice Challenges 3 Credits	Although violent crime has generally been on the decline since the mid-1990's, the subjects of gun ownership, gun violence, and gun control have become ubiquitous in election campaigns. This course explores the historica
CRIMJ 460	History and Function of Criminal Justice Components 3 Credits	Historical development of criminal justice system components (police, courts, corrections) related to formulation and function of the state.
CRIMJ 462	Comparative Criminal Justice Systems 3 Credits	A comparison of American and selected foreign justice systems to illustrate the variety of possible responses to crime.
CRIMJ 465	Ethics in Criminal Justice 3 Credits	Ethical behavior in the criminal justice system.
CRIMJ 467	Law and Society 3 Credits	Law and society studies the social origins of law and legal systems; occupational careers, and decision-making of legal officials. SOC (CRIMJ/CRIM) 467 Law and Society (3) (BA) This course meets the Bachelor of Arts degr
CRIMJ 469	Drugs and Drug Policy in the United States 3 Credits	Examines the history and dimensions of drug use and analyzes the impact of drug policy. CRIMJ 469 / HIST 469 Drugs and Drug Policy in the United States (3) For nearly a century, the United States has been waging its vers
CRIMJ 471	Legal Rights, Duties, Liabilities of Criminal Justice Personnel 3 Credits	Civil law issues within a justice agency and between criminal justice agencies and members of the public.
CRIMJ 473	Criminal Procedure and Evidence in the Business Community 3 Credits	Law of evidence and proof, constitutional constraints on police procedures (arrest, search, etc.) in society and the business community.
CRIMJ 482	Seminar, Criminal Justice Agency Administration 3 Credits	Relates organizational and public policy management approaches to police, courts, and correctional institutions. CRIM (CRIMJ) 482 Seminar, Criminal Justice Agency Administration (3) In this course, you will learn about the
CRIMJ 494	Research Topics 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis. CRIMJ 494CRIMJ 494. Research TopicsThis common course will focus on specific research issues. Issues to be covered wil
CRIMJ 494H	Research Topics 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CRIMJ 495	Internship in Criminal Justice 3-12 Credits/Maximum of 12	Experience with a criminal justice agency coordinated through readings and discussion.
CRIMJ 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall ourside the scope of formal courses.
CRIMJ 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CRIMJ 499	Foreign Studies 6 Credits	Courses offered in foreign countries by individual or group instruction.
CRIM 12	Criminology 3 Credits/Maximum of 3	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. A key focus of the class is exa
CRIM 12H	Honors Criminology 3 Credits	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. This honors version of Introdu
CRIM 100	Introduction to Criminal Justice 3 Credits	Criminal Justice 100 is an overview of the United States criminal justice system and the major components of police, courts and corrections. Students will engage in reviews of, evaluate and consider legal foundations, types
CRIM 113	Introduction to Law 3 Credits	Introduction to law in society with a focus on criminal law, judicial code, laws of sentencing and corrections, ciminal procedure. CRIM (CRIMJ) 113 Introduction to Law (3) Introduction to the law is designed to provide CLJ m
CRIM 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CRIM 201	Presumed Innocent? Social Science of Wrongful Conviction 3 Credits	The criminal justice system is a human creation and some errors are expected. Sometimes guilty parties go free and sometimes innocent people are convicted. In this course, we will employ the perspective of the social scier

CRIM 225N	Organized Crime in Film and Society 3 Credits	IT 225N / CRIM 225N, Organized Crime in Film & Society, examines the relationship between criminological and justice theories regarding organized crime and the portrayal of the mafia in popular Italian American film. The co
CRIM 249	Criminology Theory and Evidence 3 Credits	This course provides criminology majors a more in-depth understanding of the theories, methodologies, and research results within the scientific discipline of criminology. Students will first focus on concepts and definitions a
CRIM 250W	Research Methods in Criminology 3 Credits	The purpose of this writing-intensive course is to engage students in the social scientific research process used by criminologists to answer empirical research questions. It is the second course (after CRIM 249) that overview
CRIM 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or smal-group basis.
CRIM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CRIM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CRIM 298	Preceptorship in Criminology 1-6 Credits/Maximum of 6	CRIM 298 Preceptorship in Criminology (1-6 per semester/maximum of 6) The Preceptorship provides undergraduates with an opportunity to work closely with a faculty member in a regularly scheduled course as a teaching
CRIM 395	Internship in Criminal Justice 1-9 Credits/Maximum of 9	Field experience focusing on the student's major interest within the area of criminal justice.
CRIM 406	Sociology of Deviance 3 Credits	Theory and research concerning deviant behaviors and lifestyles viewed as significant departures from a group's normative expectations. SOC (CRIMJ/CRIM) 406 Sociology of Deviance (3) (BA) This course meets the Bache
CRIM 412	Crime, Social Control, and the Legal System 3 Credits	Legal and extralegal control; public opinion on crime; criminal justice and correctional processes; legal sanctions; control strategies. Field trip.
CRIM 413	Advanced Criminological Theory 3 Credits	This course provides an in-depth look at theories of crime and examines influential empirical studies designed to these theories. CRIMJ 413CRIMJ (CRIM/SOC) 413 Advanced Criminological Theory (3)Advanced criminologic
CRIM 421	Violent Crime in the United States 3 Credits	The impact of violent crime on victims, their families, and communities; the police process as it relates to violent crime. CRIMJ 421CRIMJ (CRIM) 421 Violent Crime (3)This course will examine the nature, frequency, and caus
CRIM 422	Victimization 3 Credits	Examines the history, how victimization is measured/studied in social sciences, public policy implications of victimization movement in U.S. CRIM 422 / CRIMJ 422 Victimization (3) Victimology has emerged as an important a
CRIM 423	Sexual and Domestic Violence 3 Credits	Legal, sociological, and psychological perspectives on sexual and domestic violence. CRIMJ 423 / CRIM 423 / WMNST 423 Sexual and Domestic Violence (3) (US) This course investigates violence against women, specifical
CRIM 424	Drugs, Crime, and Society 3 Credits	Why do people take drugs? Why and how does society attempt to control drug use and distribution? What is the association between drugs and crime? Exploring questions such as these will be central in CRIM 429. The foc
CRIM 425	Organized Crime 3 Credits	This course examines organized crime in terms of historical antecedents, structure, related theories, and policy issues. CRIM (CRIMJ) 425 Organized Crime (3) This course will provide students with a historical and theoretica
CRIM 430	American Correctional System 3 Credits	Study of corrections from probation, intermediate punishment, adult and juvenile correctional institutions to parole. CRIM 430 American Correctional System (3) This course examines the correctional system from the sentenc
CRIM 432	Crime and the American Court System 3 Credits	This course examines the American court system including structure and the way courts process offenders with special focus on sentencing. CRIM (CRIMJ) 432 Crime and the American Court System (3) CRIM/CRIMJ 432, (
CRIM 433	Sentencing 3 Credits	This course studies sentencing from prosecutorial charging decisions through revocation of probation, and the complex goals and responsibilities at sentencing. CRIM 433 Sentencing (3) This course focuses on the key deci
CRIM 435	Policing in America 3 Credits	This course will focus on current, historical, theoretical, and research issues surrounding law enforcement in the United States. CRIM 435 Policing in America (3) This course is designed to provide a basic knowledge of the s
CRIM 441	The Juvenile Justice System 3 Credits	Historical and contemporary view of the juvenile justice system. Focus on analyzing components of the system, their interactions, processing, and handling of youths. CRIMJ 441 CRIMJ (CRIM) 441 Delinquency and Juvenile
CRIM 451	Race, Crime, and Justice 3 Credits	This course focuses on the significance of race, class, and ethnicity to criminal justice processing and criminal offending. CRIMJ 451 CRIMJ (CRIM) 451 Race, Crime, and Justice (3) (US)(BA) This course meets the Bachelor
CRIM 453	Women and the Criminal Justice System 3 Credits	This course focuses on the experiences of women as offenders, victims, and professionals in the criminal justice system. CRIMJ 453 / CRIM 453 / WMNST 453 Women and the Criminal Justice System (3) (US) The course wil
CRIM 459	Communities and Crime 3 Credits	In this course you will learn about how crime levels vary across different types of neighborhoods and about the role of different socioeconomic, demographic, spatial, and informal social control aspects of neighborhoods in p
CRIM 466	Solving Community Problems 3 Credits	Explains how communities solve local problems by partnering with researchers, practitioners, and policy makers. Demonstrates how such partnerships help communities tackle complex problems by clarifying their causes, ic
CRIM 467	Law and Society 3 Credits	Law and society studies the social origins of law and legal systems; occupational careers, and decision-making of legal officials. SOC (CRIMJ/CRIM) 467 Law and Society (3) (BA) This course meets the Bachelor of Arts degr
CRIM 469	Seminar in the Law 3-4 Credits/Maximum of 7	The focus of this seminar is the law such as the laws of sentencing, appellate course decisions and their impact. CRIM 469 Seminar in Law (3-4 per semester/maximum of 7) This seminar explores topics related to the law ar
CRIM 480H	Honors Research Topics in Crime, Law, and Justice 1 Credits	Supervised experience in planning the honors thesis and a criminological career. In this 1 credit Honors course, criminology students who are in the Schreyer Honors College, who are Criminology majors, and who are in the f
CRIM 481H	Honors Information Literacy in Crime, Law, and Justice 1 Credits	This one-credit seminar is intended for Scholars in the spring semester of their third year who intend to complete their honors thesis in Crime, Law, and Justice. This course surveys the structures of information, patterns of in
CRIM 482	Seminar, Criminal Justice Agency Administration 3 Credits	Relates organizational and public policy management approaches to police, courts, and correctional institutions. CRIM (CRIMJ) 482 Seminar, Criminal Justice Agency Administration (3) In this course, you will learn about the
CRIM 490	Crime Policy 3 Credits	This course focuses on criminal justice policy and the factors that influence policy development and implementation. CRIM 490 Crime Policy (3) This class will study crime and criminal justice in the context of law and the de
CRIM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CRIM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CRIM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
CRIM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CI 105N	Improv Theater, Curriculum & Instruction 3 Credits	This course will engage students in the study and practice of longform improv theatre in ways that will develop their knowledge of the field of curriculum and instruction. At Penn State, we are all familiar with the chant, "We A
CI 185	Principles of Social Justice in Education 3 Credits	This course explores the foundations of equity-based educational practices and helps students construct individual working definitions of social justice. The course includes engagement with foundational, historical, and cont
CI 195	Early Observation Experience for Teacher Preparation 1-2 Credits/Maximum of 2	Early observational work in educational settings with a variety of age/grade levels.
CI 197	Special Topics 1-3 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CI 200	Peer Tutoring 1 Credits	Prepares students to develop successful practices as a peer tutor.
CI 210	Small Group & One-on-one Tutoring 1 Credits	The course gives students knowledge in one-on-one peer tutoring as well as in a small group setting.
CI 280	Introduction to Teaching English Language Learners 3 Credits	Introduction to language, culture, instruction, assessment, and professionalism as they relate to teaching English Language Learners in U.S. schools. C I 280 Introduction to Teaching English Language Learners (3) (GH) C I 28
CI 285	Active Engagement for Social Justice in Education 3 Credits	The course prepares students for pedagogical thinking and active engagement in social justice education in community and school-based contexts. This course is a core class of the Social Justice in Education minor and is t
CI 288	Foundations of Teaching Multilingual Learners 3 Credits	This course will examine language and its structures and the ways that language mediates learning in classrooms and schools. Our charge in this course will be to better understand the nature of language learning, asking sp
CI 295	Introductory Field Experience for Teacher Preparation 1-3 Credits/Maximum of 6	This introductory teacher preparation course utilizes a variety of field experiences (both observations within secondary school classrooms and individualized tutoring) to engage prospective education majors in issues related
CI 295A	Introductory Field Experience for Teacher Preparation 1-3 Credits	CI 295A is designed to enable students interested in early childhood education as a potential major and career to gain experience observing and assisting in a variety of school and community settings. Students will be engag

CI 295B	Introductory Field Experience in Middle Level Education 1-3 Credits/Maximum of 3	C I 295B Introductory Field Experience for Middle Level Education (1-3)CI 295B is designed to enable students interested in middle level education (Grades 4 to 8) as a potential major and career to gain experience observing
CI 295D	**SPECIAL TOPICS** 3 Credits	No description
CI 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CI 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CI 304N	Food, Farms & Justice: What's Education Got To Do With Them? 3 Credits	This course intends to unite students' minds, hearts, and bodies in an historical, sociological, and experiential exploration of food and farms and their educational possibilities. Students' minds will be engaged as they explore
CI 333	Education and the Student in Recovery 3 Credits	This highly interdisciplinary course provides a broad exploration of how students accomplish abstinent recovery from Alcohol Use Disorders (AUDS) and other Substance Use Disorders (SUDs) in high-risk environments with t
CI 385	DC Social Justice in Education: Empowering Communities through Transformative Te 3 Credits	CI 385 is the first course in a two-part sequence, the "DC Social Justice in Education Experience." This course is ordinarily followed by a two-week teaching internship in Washington, DC (CI 395). Together, these courses aim
CI 388	Sociopolitical Contexts of Teaching Multilingual Learners 3 Credits	This course will examine the micro-level experiences of language learners and macro-sociopolitical context in which they are embedded. This course will prepare English as a Second (ESL) Program Specialists to better unde
CI 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CI 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CI 400	Introduction to Research Literature 3 Credits	Introduction to research literature and methodology; stress on interpretation, sources, and research reporting.
CI 405	Reimagining Classroom Management 3 Credits	The course is designed to encourage and support students to work together in reimagining classroom management as an equitable approach for co-creating classroom communities that are safe, affirming, creative, intellectu
CI 444	Writing Support for IUG and Honors Scholars 3 Credits	he purpose of this course is to support IUG/Reading Specialist MEd students in writing their Master's papers as well as Schreyer Honors Scholars in The College of Education writing their Honors theses. The course provides
CI 460	The Creative Child 3 Credits	This course will explore the relationships among the various arts and material inquiries and learning for children in the preschool and elementary years via research, theory, and pedagogical application. CI 460 is one compone
CI 485	Social Justice in Education Capstone Course 3 Credits	This capstone course is a culminating experience taken at the end of the Social Justice in Education minor. In this course, students apply theory toward action and develop meaningful partnerships with an appropriate comm
CI 488	Designing Assessment and Curriculum for Multilingual Learners 3 Credits	English as a Second Language (ESL) Program Specialists play multiple roles in schools and classrooms. They collaborate with classroom teachers to identify and assess newcomers, assist in the adjustment of new students
CI 492	Identities, Power and Perceptual Pedagogies in Teaching and Learning 3 Credits	Students will perform inquires into the intersections of identities, power, and pedagogical formations in relation to urban teaching/learning contexts. AFAM 492 / CI 492 / EDTHP 492 Identities, Power and Perceptual Pedagog
CI 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
CI 495A	Clinical Application of Instruction - PK-4 1-6 Credits/Maximum of 6	Practicum situation for demonstration of selected instructional strategies and management skills acquired in professional training.
CI 495B	Clinical Application of Instruction - Middle Level Education 3-15 Credits/Maximum of 15	CI 495B Clinical Application of Instruction--Elementary and Kindergarten Education (3) CI 495B for Middle Level Education is a full-time teaching practicum. It provides an opportunity for teacher candidates to integrate conce
CI 495C	Clinical Application of Instruction -- Secondary Education 3 Credits	This is a pre-student teaching field experience and seminar for secondary education and world languages majors that is taken in the same semester with a discipline-specific methods class. The course takes place in 7th-12t
CI 495D	Practicum in Student Teaching--Childhood and Early Adolescent Education 12 Credits/Maximum of 12	Full-time classroom instruction in elementary and early childhood education. Students supervised by University personnel and practicing teachers. No corequisite courses other than C I 495F permitted.
CI 495E	Practicum in Student Teaching--Secondary Education 15 Credits	Full-time classroom instruction in secondary education. Students supervised by university personnel and practicing teachers.
CI 495F	Professional Development Practicum 3 Credits/Maximum of 3	Instruction concurrent with student teaching practicum. Students focus on the solution of instructional problems identified at the practicum site.
CI 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
CI 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
C-S 470	Workshop in Selected Studies in Curriculum 1-6 Credits/Maximum of 6	Intensive work on selected current problems in curriculum.
CYBER 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CYBER 100	Computer Systems Literacy 3 Credits	This is an introductory university-level course in computer systems literacy. The history, architecture and operation of computing systems and underlying computing theory are covered. The intent of this course is to ensure th
CYBER 100S	Computer Systems Literacy 3 Credits	This is an introductory university-level course in computer systems literacy. The history, architecture and operation of computing systems and underlying computing theory are covered. The intent of this course is to ensure th
CYBER 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CYBER 262	Cyber-Defense Studio 3 Credits	This studio course teaches four basic hands-on cyber-defense skills: configuring a firewall, implementing a host-based intrusion detection software tool, using the Metasploit tool to do penetration testing, and implementing a
CYBER 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CYBER 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CYBER 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CYBER 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CYBER 342W	Cyber Incident Handling and Response 3 Credits	Cyber Incident Handling and Response is an intermediate course appropriate for students who are majoring in Cybersecurity. This course provides the student with the background, experience and perspective that is require
CYBER 362	Cybersecurity Analytics Studio 3 Credits	Cyberattacks involve advanced and sophisticated techniques to infiltrate corporate computers, networks and enterprise systems and critical infrastructures. Types of attacks include advanced malware, zero day attacks and
CYBER 366	Malware Analytics 3 Credits	Malware Analytics is an intermediate course required for students who are majoring in Cybersecurity Analytics and Operations. It is a three-credit hands-on course that teaches principles and practice of malware detection, a
CYBER 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
CYBER 440	Cybersecurity Capstone 3 Credits	Cybersecurity Capstone is an advanced, culminating course for students who are majoring in Cybersecurity. This course provides the student with a practical exercise, designed by the instructor. The initial weeks of the seme
CYBER 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
CYBER 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
CYBER 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
CYBER 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DANCE 100	Dance Appreciation 3 Credits	Explore dance as a vital, communicative and performing art, reflecting social values and cultural beliefs. DANCE 100 Dance Appreciation (3) (GA;US;IL)(BA) This course meets the Bachelor of Arts degree requirements. An intr
DANCE 170	Dance Conditioning 1.5 Credits/Maximum of 3	This course is designed to improve technique through strengthening, toning, improving coordination, increasing balance, and helping alignment. The course also addresses common areas of injury. Dance Conditioning is desi
DANCE 199	Dance Foreign Study 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DANCE 220	Mojah Fusion Dance 1.5 Credits/Maximum of 3	Mojah introduces intermediate/advanced level dance students to a unique dance technique that blends Horton, Dunham, West African and jazz movements in one form. DANCE 220 Mojah Fusion Dance (1.5 per semester/m

DANCE 221	Introduction to African Dance and Culture 1.5 Credits	Africa, with its diverse people, languages, and history has a rich cultural foundation that includes many artistic elements including music, dance, folk tales, poems, graphic/plastic arts, mask making and more. According to Ly
DANCE 222	Beginning Hip Hop Dance 1 Credits	Beginning Hip Hop dance introduces the student to Hip Hop culture through dance, free expression with the body/freestyle and choreography. DANCE 222 Beginning Hip Hop Dance (1) Hip Hop dance is designed for studer
DANCE 225	Introduction to Hip Hop 1.5 Credits/Maximum of 6	Introduction to Hip Hop. Dance 225 Intro to Hip Hop (1.5 per semester/maximum of 6) (GA) (BA) This course meets the Bachelor of Arts degree requirements. Dance 225 is an introduction to Hip Hop and the many elements c
DANCE 230	Ballet 1.5 Credits/Maximum of 6	An exploration of Ballet technique. DANCE 230 Ballet (1.5 per semester/maximum of 6) (GA)(BA) This course meets the Bachelor of Arts degree requirements. DANCE 230 is an exploration of Ballet technique. The course is c
DANCE 231	Beginning Ballet I 1.5 Credits	An introduction to the techniques of ballet. DANCE 231 Beginning Ballet I (1)In DANCE 231, the student will learn the basics of ballet. These include the structure of a ballet class and the required focus and behavior of the su
DANCE 232	Beginning Ballet II 1.5 Credits	A continuation of Beginning Ballet I to augment technical proficiency. DANCE 232 Beginning Ballet II (1)DANCE 232 allows the student who has successfully completed DANCE 231 to continue broadening their knowledge o
DANCE 240	Jazz Dance 1.5 Credits/Maximum of 6	An exploration of jazz dance technique throughout history. DANCE 240 Jazz Dance (1.5 per semester/maximum of 6) (GA) (BA) This course meets the Bachelor of Arts degree requirements. DANCE 240 is an exploration of Ja
DANCE 241	Beginning Jazz I 1.5 Credits	An introduction to the techniques of Jazz dance. DANCE 241 Beginning Jazz I (1)DANCE 241 is an introduction to basic jazz techniques. The course is designed for any beginning student with an interest in jazz dance, those
DANCE 242	Beginning Jazz II 1.5 Credits	A continuation of Beginning Jazz I to augment technical proficiency. DANCE 242 Beginning Jazz II (1)DANCE 242 allows the student who has successfully completed DANCE 241 to continue to broaden their knowledge of be
DANCE 250	Tap Dance 1.5 Credits/Maximum of 6	An exploration of tap dance technique throughout history. DANCE 250 Tap Dance (1.5 per semester/maximum of 6) (GA)(BA) This course meets the Bachelor of Arts degree requirements. DANCE 250 is an exploration of Tap
DANCE 251	Beginning Tap I 1.5 Credits	An introduction to the technique of tap dance. DANCE 251 Beginning Tap I (1)DANCE 251 is an introduction to basic tap techniques. The course is designed for any beginning student with an interest in tap dance, those who
DANCE 252	Beginning Tap II 1.5 Credits	A continuation of Beginning Tap I to augment technical proficiency. DANCE 252 Beginning Tap II (1)DANCE 252 allows the student who has successfully completed DANCE 251 to continue to broaden their knowledge of beg
DANCE 260	Introduction to Modern Dance 1.5 Credits/Maximum of 6	Introduction to Modern Dance. DANCE 260 Intro to Modern Dance (1.5 per semester/maximum of 6) (GA) (BA) This course meets the Bachelor of Arts degree requirements. DANCE 260 is an introduction to modern dance and
DANCE 261	Beginning Modern Dance I 1.5 Credits/Maximum of 6	Introduction to modern dance as an art form; development of dance technique and composition; teaching methods for improvisational skills. DANCE 261 Beginning Modern Dance I (1.5) (GA) (BA) This course meets the Bach
DANCE 262	Beginning Modern Dance II 1.5 Credits	A continuation of Beginning Modern Dance I to augment technical proficiency and to further comprehension of choreographic methods. DANCE 262 Beginning Modern Dance II (1.5)DANCE 262 is a continuation of Beginning
DANCE 270	Introduction to Bartenieff Fundamentals 3 Credits	Physical and theoretical approach to movement: facilitates efficiency, and expression through dynamic alignment, mobility, kinesthetic awareness; reduce physical injuries.
DANCE 285	Contemporary Dance Performance 1-2 Credits/Maximum of 8	Contemporary Dance Performance is designed to introduce the beginning performer to the choreographic and rehearsal process as preparation for performance. DANCE 285 Contemporary Dance Performance (1-2 per sem
DANCE 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
DANCE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DANCE 331	Intermediate Ballet I 1.5 Credits/Maximum of 6	A continuation of the course work established in Beginning Ballet II. DANCE 331 Intermediate Ballet I (1) Dance 331 allows the student who has had a solid introduction to the fundamental movements and style of ballet to de
DANCE 332	Intermediate Ballet II 1.5 Credits/Maximum of 6	A continuation of the course work established in Intermediate Ballet I. DANCE 332 Intermediate Ballet II (1) Dance 332 allows the student who has a strong background in the basics of ballet technique to be challenged with
DANCE 361	Intermediate Modern Dance I 1.5 Credits/Maximum of 6	This course is a development of techniques and principles of modern dance at the intermediate level. DANCE 361 Intermediate Modern Dance I (1.5), continues to build on the technical foundation from Beginning Modern I a
DANCE 362	Intermediate Modern Dance II 1.5 Credits/Maximum of 6	This course is a continuation of Modern Dance to augment technical proficiency. DANCE 362 Intermediate Modern Dance II (1.5) continues to build on the technical foundation from Intermediate Modern Dance I (DANCE 361
DANCE 365	Contemporary Movement Lab I 3 Credits	An intermediate level modern dance technique utilizing improvisation to enhance technical and performance issues: alignment, connection, balance, transition, expression, discovery. DANCE 365 Contemporary Movement La
DANCE 366	Contemporary Movement Lab II 3 Credits	An intermediate level modern dance technique utilizing composition to enhance technical and performance issues: alignment, connection, balance, transition, expression, discovery. DANCE 366 Contemporary Movement La
DANCE 370	Anatomy and Physiology for Performers 3 Credits	The purpose of this course is to provide performers with anatomical theory and concepts to apply to movement. The course will progress through the body in systems as they relate to the biomechanics of movement and the
DANCE 381	Dance Composition I 2 Credits	Introduction to the basic principles and craft of choreography. DANCE 381 Dance Composition I (2)This course is an introduction to the basic principles and craft of the art of choreography. The students will work with the pri
DANCE 382	Music Theatre Dance--Style I 1.5 Credits	A practical study of dance styles from the 1890'S to the 1990'S. DANCE 382 Music Theatre Dance --Style I (1.5) DANCE 371 allows the student who has successfully completed two semesters of ballet (DANCE 231 and 232
DANCE 383	Performance Devising 3 Credits/Maximum of 9	Devised performance is that which that does not proceed from a published script or score. In this course, students will use the various languages of the stage--including movement, dance, and design--as equal partners in cr
DANCE 384	Music Theatre Dance--Style II 1.5 Credits	A continuation of course work established in Music Theatre Dance Style I. DANCE 384 Music Theatre Dance --Style II (1.5) DANCE 372 allows the student who has successfully completed DANCE 371 to continue broadening
DANCE 399	Dance Foreign Study 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DANCE 405	Conditioning, Self-Defense, and Combat for Theatre 3 Credits/Maximum of 18	This course is designed to build and enhance physical awareness, control, stage movement, impulse work, self-defense skills, confidence, and athleticism. The course focuses on conditioning, breath and stretch, coordinatio
DANCE 410	Dance History 3 Credits	Survey of dance history concerning perspectives of culture, race, and gender with a focus on Nineteenth and Twentieth centuries. DANCE 410 Dance History (3) (US/IL) DANCE 484 (US;IL) Dance History (3) Survey of dance
DANCE 412	Practical Applications of Movement in the Classroom 3 Credits	This course will guide the students in movement-oriented activities and explore how these activities relate to learning academic concepts. DANCE 412 Practical Applications of Movement in the Classroom (3) Moving and lea
DANCE 422	Advanced Hip Hop Dance 1.5 Credits	Advanced Hip Hop Dance reinforces and expands concepts from Beginning Hip Hop Dance. Free expression of the body, freestyle, and choreography are emphasized. DANCE 422 Advanced Hip Hop Dance (1.5) Advanced
DANCE 431	Advanced Ballet I 1.5 Credits	An advanced ballet training course. DANCE 431 Advanced Ballet I (1)DANCE 431 allows the student who has successfully completed DANCE 232, or who has interviewed with the Instructor concerning their previous training
DANCE 432	Advanced Ballet II 1.5 Credits	A continuation of Advanced Ballet I to augment technical proficiency. DANCE 432 Advanced Ballet II (1)DANCE 432 allows the student who has successfully completed DANCE 431, or who has interviewed with the Instructo
DANCE 441	Advanced Jazz I 1.5 Credits	An advanced course in the techniques of jazz dance. DANCE 441 Advanced Jazz I (1)DANCE 441 allows the student who has successfully completed DANCE 242 to continue their study of jazz technique and performance. T
DANCE 442	Advanced Jazz II 1.5 Credits	A continuation of Advanced Jazz I to augment technical proficiency. DANCE 442 Advanced Jazz II (1)DANCE 442 allows the student who has successfully completed DANCE 441 to continue to broaden their knowledge of a
DANCE 451	Advanced Tap I 1.5 Credits	An advanced course in the techniques of tap dance. DANCE 451 Advanced Tap I (1)DANCE 451 allows the student who has successfully completed DANCE 251 and 252, or has permission of the instructor, to continue to br
DANCE 452	Advanced Tap II 1.5 Credits	A continuation of Advanced Tap I to augment technical proficiency. DANCE 452 Advanced Tap II (1)DANCE 452 allows the student who has successfully completed DANCE 451 to continue to broaden their knowledge of adv
DANCE 461	Advanced Modern Dance I 1.5 Credits/Maximum of 9	Development of dance technique and movement combinations on the advanced level. DANCE 461 Advanced Modern Dance I (1.5) DANCE 461 is Advanced Modern Dance. This class continues the technique foundation fror

DANCE 466	Contemporary Movement Lab III 3 Credits/Maximum of 6	An advanced exploration of modern dance techniques supported by the choreographic process. DANCE 466 Contemporary Movement Lab III (3 per semester/maximum of 6) DANCE 466 is an advanced level modern dance
DANCE 472	Introduction to Laban Movement Analysis 3 Credits	Observe and analyze movement elements by exploring concepts of Body, Effort, Shape, and Space to increase personal communication and expression. DANCE 472 Introduction to Laban Movement Analysis (3) Laban Mov
DANCE 485	Contemporary Dance Repertory 1-2 Credits/Maximum of 12	An advanced dance course in the choreographic process with emphasis on original choreography in performance. DANCE 485 Contemporary Dance Repertory (1-2)This is an advanced dance course in the choreographic pr
DANCE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
DANCE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DANCE 499	Dance Foreign Study 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DA 101	Introduction to Data Analytics 3 Credits	This course is designed around storytelling with data. It is designed to introduce students to foundational concepts in data analytics. Students will learn key concepts used in the data analytics industry to understand and fram
DA 201W	Descriptive Analytics 4 Credits	DA 201W is a four-credit course with lecture and writing components. (DA201W, DA 302W, and DA 401W each carry only one credit of "writing"; completion of all three courses is required to meet the writing requirement.) Thi
DA 301	Diagnostic Analytics 3 Credits	This course introduces students to the core areas of diagnostic analytics. The diagnostic analysis takes descriptive data a step further by examining the relationships between variables through root cause analysis. Students v
DA 302W	Predictive Analytics 4 Credits	DA 302W is a four-credit course with lecture and writing components. (DA201W, DA 302W, and DA 401W each carry only one credit of "writing"; completion of all three courses is required to meet the writing requirement.) The
DA 305	Data Ethics and Privacy 3 Credits	DA 305 will cultivate students¿ awareness of ethical, privacy, and security rules and standards to guide how to use and analyze data and communicate the report findings. The course will demonstrate appropriate ethical, priv
DA 401W	Prescriptive Analytics 4 Credits	DA 401W is a four-credit course with lecture and writing components. (DA201W, DA 302W, and DA 401W each carry only 1 credit of "writing"; all three courses must be taken to meet the writing requirement). This course will
DA 402	Qualitative Analytics 3 Credits	The majority of non-numeric data is unstructured (e.g., blogs, emails, forums). DA 402 is an overview of data analytics techniques for non-numeric data (e.g., text, videos or images). The methodological reasons for a qualitati
DA 475	Data Analytics Implementation Capstone I 3 Credits	DA 475 is the first semester of a two-semester sequence and completion of the BS in Data Analytics. The course requirements enable the student to demonstrate the student's ability to use industry or organization data to de
DA 476	Data Analytics Implementation Capstone II 3 Credits	DA 476 is the second semester of a two-semester sequence and completion of the BS in Data Analytics. The course requirements will include a continuation of industry project (assigned in DA 475) and the remaining three-p
DA 495	Internship 1-18 Credits	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
DA 496	Independent Study 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
DA 497	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
DS 97	SPECIAL TOPICS 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DS 99	Foreign Studies 1-12 Credits/Maximum of 999	Courses offered in foreign countries by individual or group instruction.
DS 120	Scripting for Data Sciences 1 Credits	Introductory course in computer-based scripting languages for use in data analyses. DS 120 Scripting for Data Sciences (1) This introductory course aims to teach practical skills in data manipulation and preprocessing scrip
DS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DS 200	Introduction to Data Sciences 4 Credits	The course introduces students to data sciences, an emerging discipline focused on the knowledge and skills needed to harness the power of data to advance science and engineering, address complex national and global c
DS 220	Data Management for Data Sciences 3 Credits	The course introduces students to the fundamentals of data models: organizing, managing, and using different types of data that arise in real-world applications. The course introduces students to several alternative data mo
DS 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
DS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
DS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DS 300	Privacy and Security for Data Sciences 3 Credits	This course provides an overview about data privacy and security implications arising in the context of data analytics, as well as the techniques and processes for managing privacy and security of large-scale structured and
DS 305	Algorithmic Methods and Tools 3 Credits	This course teaches students how to formulate data science problems that arise in different applications that involve different types of data (tabular, sequence, network, matrix data); and introduces students to common strat
DS 310	Machine Learning for Data Analytics 3 Credits	The course teaches students the principles of machine learning (and data mining) and their applications in the data sciences. DS 310 Machine Learning for Data Analytics (3) The course introduces the principles of machine l
DS 320	Data Integration 3 Credits	Recommended Preparations: DS 310 Modern data-intensive applications (healthcare, security, public policy, science, commerce, crisis management, education, among others) increasingly call for integration of multiple type
DS 330	Visual Analytics for Data Sciences 3 Credits	The course introduces visual analytics methods and techniques that are designed to support human analytical reasoning with data. DS 330 Visual Analytics for Data Sciences (3) Visual analytics is the science of combining in
DS 340W	Applied Data Sciences 3 Credits	This course builds up the students' understanding of data sciences by discussing the fundamental principles in the context of real-world examples, and then shows specifically how the principles can provide understanding c
DS 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
DS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
DS 402	Emerging Trends in the Data Sciences 3 Credits/Maximum of 9	This course exposes and trains students in the analysis of emerging trends in data sciences. DS 402 Emerging Trends in the Data Sciences (3) Data sciences is a rapidly evolving field affected by innovations in a variety of te
DS 410	Programming Models for Big Data 3 Credits	Recommended Preparations: DS 310; CMPSC 448 This course introduces modern programming models and related software stacks for performing scalable data analytics and discovery tasks over massive and/or high dim
DS 420	Network Analytics 3 Credits	Networks constitute a useful representational abstraction for data from many real-world applications, such as social networks, biomolecular networks, brain networks, among others. This course aims to cover the conceptual
DS 435	Ethical Issues in Data Science Practice 3 Credits	This course explores social and ethical dimensions of data science. Datafication can be a powerful force for good, but it can also do harm-to individuals and society. Oriented primarily around case studies, the course investig
DS 440	Data Sciences Capstone Course 3 Credits/Maximum of 3	This course provides opportunities for students to develop their data science problem solving skills via a semester long group project. Projects typically involve analyses of real data. Students should be able to conceptualize
DS 440W	Data Science Capstone 3 Credits	The Data Sciences capstone develops the research orientation and creative problem solving necessary for successful careers. The capstone develops these skills in the context of a semester long project, the solution to whic
DS 441	Information Retrieval and Organization 3 Credits	The practices and foundations of access to textual and nontextual information using the principles of information retrieval and web search. Introductory course for for undergraduate students in the last year of their academic
DS 442	Artificial Intelligence 3 Credits	This course provides an overview of the foundations, problems, approaches, implementation, and applications of, artificial intelligence. Topics covered include problem solving, goal-based and adversarial search, logical, prob
DS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
DS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
DS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
DS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction
DART 100	Introduction to Digital Art & Media Design 3 Credits	DART 100 Introduction to Digital Arts and Media Design (3) This course introduces students to concepts, skills, language and principles of practice in digital arts and design. This course introduces concepts and principles of
DART 102N	Introduction to 2d Digital Art and Technology 3 Credits	DART 102N Introduction to 2d Digital Art and Technology (3) A General Education Integrative Studies, digital arts course introducing 2D graphics software through explorations of the 2d digital art medium. This is a General Ed
DART 200	Creative Research in Digital Arts & Media Design 3 Credits	DART 200: Creative Research in Digital Arts and Media Design (3) provides digital artists and designers with a studio-based exploration of critical, theoretical, and historical understandings of digital media and research. This c

DART 201	Focused Realization Studio 3 Credits	DART 201: Focused Realization Studio (3) Provides students with the opportunity for the realization of more focused studio explorations in digital arts and design disciplines. This course provides digital arts and media desigr
DART 202	2D Digital Art & Computer Graphics 3 Credits	DART 202 2D Digital Arts and Computer Graphics (3) Introduces 2D digital imaging techniques and concepts for the production of original art and design using graphics software. This course will introduce 2D digital art and c
DART 203	3D Digital Art & Design Fundamentals 3 Credits	DART 203 3D Digital Art and Design Fundamentals (3) Introduces 3D foundational skills for producing images, videos, objects, and interactive real-time virtual spaces with 3D software. This course will introduce 3D digital art
DART 204	Animation Fundamentals 3 Credits	DART 204 Animation Fundamentals (3) Introduces time-based animation fundamentals along with core skills and knowledge necessary for producing animated work. This course focuses on creative work that is grounded in t
DART 205	Creative Coding: Scripting for Art and Design 3 Credits	DART 205 Creative Coding: Scripting for Art and Design (3) Introduces object-oriented programming fundamentals for the production of expressive interactive experiences such as animations, interfaces and games. This cou
DART 206	Web Design and Visual Web Development 3 Credits	DART 206 Web Design and Visual Web Development (3) Introduces essential techniques and concepts of modern web design, focusing on how visual graphics and layout contribute to user experience. This course introduces
DART 213	3D Printing for Artists and Designers 3 Credits	DART 213 3D Printing for Artists and Designers (3) This course explores the potential of 3D printing as a vehicle for creative expression. Studio sessions include hands-on printing with materials both hard and soft, from bio-p
DART 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
DART 297	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
DART 300	Digital Portfolio Elements 3 Credits	DART 300: Digital Portfolio Elements (3) An intermediate level studio course in which students develop digital art and design work that promotes creative thinking and problem-based learning in producing digital media projec
DART 301	Creative Collaboration Studio 4 Credits	DART 301 Creative Collaboration Studio (4) Provides students with an advanced studio exploration of interdisciplinary collaborative projects in the digital arts and design disciplines. This course will consider and develop adv
DART 302	Digital Painting Studio 4 Credits	DART 302 Digital Painting (4) A digital arts studio course that focuses on creating and critically evaluating digital painting. This digital arts studio course focuses on creating and critically evaluating digital painting and builds u
DART 303	3D Studio 4 Credits/Maximum of 8	DART 303 3D Studio (4) A digital arts studio course focusing on developing 3D computer generated digital art and design work. This course will build upon previous digital arts studio courses and provide students with an in-
DART 304	Motion Graphics Studio 4 Credits	DART 304 Motion Graphics Studio (4) A digital arts studio course focuses on developing and critically evaluating motion graphics and time-based media art and design. This course will build upon previous digital arts studio c
DART 305	Mobile and Touch Studio 4 Credits	DART 305 Mobile and Touch Studio (4) A studio course focusing on designing and developing interactive stories, games and expressive applications targeting mobile and touch screen devices This course teaches students h
DART 314	Video Art and Time-Based Media 4 Credits/Maximum of 8	DART 314 Video Art and Time-Based Media (4 per semester/maximum of 8) A digital arts studio course that focuses on video art, new media and time-based work. This digital arts course provides an in-depth studio experier
DART 315	Game Studio 4 Credits/Maximum of 8	DART 315 Game Studio (4 per semester/maximum of 8) A digital arts studio course concentrating on authoring interactive games as a creative vehicle for self-expression. This digital arts course provides an in-depth studio e
DART 400	Digital Arts & Media Design Capstone I 4 Credits	DART 400 Digital Art and Design Capstone I (4) Provides digital arts and media design students an opportunity to conceptualize an undergraduate thesis. Each student will have the opportunity to identify the primary issue of
DART 401	Digital Art & Media Design Capstone II 4 Credits	DART 401 Digital Art and Media Design Capstone II (4) Provides digital arts and media design students an opportunity to implement an undergraduate thesis. This course is the second part of a two-course undergraduate dig
DART 404	Animation Studio 4 Credits/Maximum of 8	DART 404 Animation Studio (4 per semester, maximum of 8) An in-depth digital arts production course focusing on exploring animation and time-based media through the development of self-initiated projects. This course w
DART 405	Physical Computing Studio 4 Credits/Maximum of 8	DART 405 Physical Computing Studio (4 per semester, maximum of 8) A studio course concentrating on interactive physical systems using software/sensors that can sense and respond to the analog world. This course will b
DART 406	Advanced Web and Multimedia Publishing Studio 4 Credits/Maximum of 8	DART 406 Advanced Web and Multimedia Publishing Studio (4 per semester/maximum of 8) A digital arts studio course concentrating on advanced web and multimedia publishing practice for art and design. This course will
DART 410	Integrating Media: Convergence in Practice 4 Credits/Maximum of 12	DART 410 Integrating Media: Convergence in Practice ((4 per semester/maximum of 12) A studio course focusing on integrating new media concepts and related technologies into digital arts, media design and contemporar
DART 411	Advanced New Media: Capstone 4 Credits/Maximum of 8	DART 411 Advanced New Media: Capstone (4 per semester/maximum of 8) A new media and digital arts capstone course concentrating on the integration of art and technology in advanced thesis projects. This is an advanc
DART 412	Portfolio Design and Professional Practices 3 Credits	DART 412 Portfolio Design and Professional Practices (3) This course emphasizes the development of presentation skills for digital artists in audience/client interactions. This course is the concluding experience for all studen
DART 495	Internship 1-18 Credits/Maximum of 18	Supervised on or off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
DART 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
DART 497	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
DIGIT 100	Introduction to Digital Humanities 3 Credits/Maximum of 3	The traditional theories and methods that underwrote the study of literature, history, and philosophy in the 20th century are now being supplemented with new techniques and tools. While this class will give a sense of the bre
DIGIT 110	Text Encoding Fundamentals 3 Credits	DIGIT 110 teaches students standardized encoding techniques for archival quality data creation, storage, and analysis.
DIGIT 210	Large Scale Text Analysis 3 Credits	Course teaches students programmatic and algorithmic techniques and tools for accessing and analyzing unstructured text.
DIGIT 220N	Introduction to 2D and 3D Procedural Animation 3 Credits	This course introduces students in a general education context to procedural animation, applying algorithms within animation software to simulate physics realistically and control how polygonal forms are animated over facto
DIGIT 297	Special Topics 3-6 Credits/Maximum of 6	Formal courses given infrequently to explore, in dept, a comparatively narrow subject which may be topical or of special interest.
DIGIT 400	Digital Project Design 3 Credits	This course will introduce students to the tools and resources available to design and implement digital project.
DIGIT 409	Advanced Digital Creations 3-6 Credits/Maximum of 6	Students will develop 3d digital creation skills in relation to their field(s) of study. DIGIT 409: Advanced Digital Creations is a problem-based learning class that uses the digital media concepts and tools introduced in Art 168 t
DIGIT 410	Data Visualization 3 Credits	In-depth understanding of techniques and software for data visualization. Students will be introduced to complex data sets and learn how to present findings in interactive and innovative ways.
DIGIT 430	Simulations of Human Behavior 3 Credits	In Modeling and Simulation, students will develop an understanding of the systems, processes, tools, and implications of this field.
DIGIT 489	Professional Development in Digital Media, Arts, and Technology 1 Credits/Maximum of 2	Students taking this course will have completed or be enrolled in Digital Project Design (DIGIT 400) or Senior Project (DIGIT 494) or Internship (DIGIT 495). This class will extend the content knowledge of those courses into pr
DIGIT 494	Senior Project 3 Credits	DIGIT 494 is a senior capstone course that allows students to design, complete, and present an independent digitally based project.
DIGIT 495	Internship 3 Credits	A professional internship opportunity with a business, organization, or non-profit agency.
DIGIT 496	Independent Study 3-9 Credits/Maximum of 9	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal course.
DIGIT 497	Special Topics 3-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
DIGIT 499	Foreign Study 3-6 Credits/Maximum of 6	Courses offered in foreign countries by individual or group instruction.
DMD 100	Digital Multimedia Design Foundations 3 Credits	This course introduces students to concepts, skills, language and principles of practice in art and design, communication, and information sciences. DMD 100 Digital Multimedia Design Foundations sets a strong foundation
DMD 300	Digital Multimedia Design Studio 3 Credits	Students adapt skills and knowledge of digital media to solve problems and communicate ideas in producing collaborative multimedia projects. In DMD 300 Digital Multimedia Design Studio, students synthesize the concept
DMD 400	Digital Multimedia Design Capstone 3 Credits	In this capstone, students develop portfolio projects by applying creative production concepts, tools, and approaches to a contemporary issue. DMD 400 Digital Multimedia Design Capstone is an advanced, senior-level cap
ECE 295	Field Experience for Practicing Early Childhood Educators 3 Credits	This course uses an internship education approach comprised of field placement hours and weekly seminars. Students in 295 will be supervised during their current, off-campus full-time work (to count as the early childhood
ECE 353	Parent Involvement in Home, Center, and Classroom Instruction 3 Credits	This course is designed to apprentice teachers in early childhood education to the policies, theories, practices, skills, and knowledge(s) of home-school, community-school partnerships in the globally diversifying 21st centur
ECE 451	Instruction in Early Childhood Education Derived from Development Theories 3 Credits	Curriculum and instruction for early childhood education; program practice with pluralistic theoretical foundations for early childhood education.
ECE 479	The Young Child's Play as Educative Processes 3 Credits	Young child's play as educative processes and uses of materials in curricular settings are examined; early childhood education practicum.
ECE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ECE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMSC 100S	Earth and Mineral Sciences First-Year Seminar 3 Credits	Writing, speaking, and critical thinking skills applied to topics of general interest in Environmental and Materials Science. EM SC 100S Earth and Mineral Sciences First-Year Seminar (3) (GWS;FYS) The EMS First-Year Semin
EMSC 121	Minerals and Modern Society 3 Credits	Production and use of mineral resources in modern society with an emphasis on the interrelationships and their effect on the Earth system.

EMSC 125	Plastics in the Environment 3 Credits	This course introduces students to various aspects of plastics in the environment. Major topics covered include the production and uses of plastics, the science of plastics in the environment (distribution and degradation), th
EMSC 240N	Energy and Sustainability in Contemporary Culture 3 Credits/Maximum of 3	In this course students are guided through an engaging exploration and the critical evaluation of selected media (e.g., books, film) in contemporary culture on topics related to energy and sustainability. Three selections are us
EMSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EMSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMSC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EMSC 302	Orientation to Energy and Sustainability Policy 1 Credits	Orientation to goals of the Energy and Sustainability Policy program and resources available to help students succeed. EM SC 302 Orientation to Energy and Sustainability Policy (1) EM SC 302 provides an orientation to the
EMSC 420	Energy and Modern Society 3 Credits	Technology and economics of energy resources, production, and consumption; environmental factors, exhaustion, new technology.
EMSC 440	Science Diving 4 Credits	Advanced scuba diving skills applied to underwater research. EM SC 440 Science Diving (4) EM SC 440 is a four credit intermediate science diving course for students already holding a basic open water scuba diving certific
EMSC 441	Advanced Science Diving 4 Credits	Advanced scuba diving skills applied to underwater data collection and research. EM SC 441 Advanced Science Diving (4) EM SC 441 is a four credit advanced science diving course for students who have completed EM S
EMSC 460	Environmental Data Analytics 3 Credits	With the rapid increase in quality and quantity of environmental data, emerging data-driven analytical methods are becoming important for discovering patterns and making predictions about our Earth and environmental syst
EMSC 470W	Undergraduate Collaborative Research in Earth and Materials Sciences 1-6 Credits/Maximum of 6	Interdisciplinary research seminar involving students in the process of discovery, writing, and debate on issues of broad interest to Earth and Materials Sciences.
EMSC 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EMSC 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EMSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EMSC 497	Special Topics 1-9 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
EARTH 2	The Earth System and Global Change 3 Credits	EARTH 2 is a broad introduction to the Earth and to the forces and processes that shape the present-day global environment. The course focuses on global-scale changes, both natural and human-induced. These include: gl
EARTH 10	Energy and Earth's Climate 1 Credits	Energy and Earth's Climate examines the immense value we get from energy, where we get most of our energy, why the energy system must change eventually, and why a faster change would help us. Our ancestors burned
EARTH 100	Environment Earth 3 Credits	This course is designed to introduce students to issues surrounding the development and maintenance of human civilization on Earth. This includes developing an understanding of how human population has grown over tim
EARTH 100H	Environment Earth: Environment and Energy 3 Credits	Examination of climate change and energy issues. EARTH 100H Environment Earth: Environment and Energy (3) (GN) In this course, students will be asked to investigate the natural processes that affect the Earth's climate a
EARTH 101	Natural Disasters: Hollywood vs. Reality 3 Credits	"Natural Disasters: Hollywood vs. Reality" investigates a variety of natural hazards and disasters. We use the popular media as a starting point to motivate discussions and development of tools for analyzing the causes of dis
EARTH 103N	Earth in the Future: Predicting Climate Change and Its Impacts Over the Next Centu 3 Credits	Earth has a complex, fascinating, interconnected system of processes that control the state of the climate. If we can understand how this system works, then we can make intelligent predictions about the climate in the future
EARTH 104N	Climate, Energy and Our Future 3 Credits	This class explores how we can shift our society to a sustainable energy system that improves our quality of life, our economy, and our natural environment. Energy provides well-being, jobs and about 10% of our economy, v
EARTH 105N	Environments of Africa: Geology and Climate Change 3 Credits	Significant natural features of Africa as related to human endeavor; case studies include the Nile, climate change, and natural resources. EARTH 105N Environments of Africa: Geology and Climate History (3) (GN/GS;IL)(BA) T
EARTH 107N	Coastal Processes, Hazards and Society 3 Credits	Ten percent of the world's population or approximately 600 million people live on land that is within 10 meters of sea level. This low elevation coastal zone includes some of the world's most populous cities including New Yor

EARTH 109	The Fundamentals of Shale Energy Development 3 Credits	Energy is a critical component of modern society, yet we face significant challenges associated with balancing energy demands, energy security, environmental sustainability, and stable economics with sound regulations anc
EARTH 111N	Water: Science and Society 3 Credits	The Earth is often called "The Blue Planet", a reference to the fact that over two-thirds of its surface is covered by water. Despite its apparent abundance, water is a valuable and limited resource; less than 2.5% of the water
EARTH 112	Climate Science for Educators 3 Credits	Concepts of climate sciences highlighted by evidence-based explanations and scientific discourse in preparation for K-6 science teaching. This introductory, multidisciplinary course will focus on the interactions among phys
EARTH 150	Dinosaur Extinctions and Other Controversies 3 Credits	One of the most dramatic developments in the Earth sciences is the suggestion that extinction of the dinosaurs was caused by a meteorite impact. Evidence for and against this controversial idea is just one of the subjects a
EARTH 155N	Scientific Controversies and Public Debate 3 Credits	EARTH 155N Scientific Controversies and Public Debate is an introduction to critical thinking about the messages consumers get from public relations (PR) on behalf of industry, and from scientists regarding environmental h
EARTH 200N	Earth Systems Through a Soc & Envir Justice Lens 3 Credits	EARTH 200N Earth Systems through a Social and Environmental Justice Lens is an introduction to critical thinking about the intersectionality between environmental degradation and human harm. The course seeks to help st
EARTH 240	Coral Reef Systems 4 Credits	The geography, geology, biology ecology and chemistry of coral reef ecosystems; threats to reef environments; and techniques for reef surveying and monitoring; with local geologic and distant modern field studies. EARTH
EARTH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EARTH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EARTH 303	Analysis of Earth Future Scenarios 3 Credits	Climate change is an existential threat that will impact every aspect of life in countries around the world, including basic needs for human survival such as food and water. Understanding the systems that control Earth's clima
EARTH 400	Earth Sciences Seminar 3 Credits	Interdisciplinary study of environmental problems in the earth sciences.
EARTH 402	Modeling the Earth System 3 Credits	Earth 402 is a course that focuses on modeling Earth systems with a focus on the climate system, including the economic and policy aspects of energy and carbon emissions. By building and experimenting with numerical m
EARTH 412	Urban Sustainability 3 Credits	EARTH 412 examines the relationships between people and the environment in the context of urban spaces with international context, United States national conditions and perspectives, and local implementation and practi
EARTH 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EARTH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EARTH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EARTH 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ECON 14	Principles of Economics 3 Credits	ECON 14 Principles of Economics (3)(GS)(BA) This course meets the Bachelor of Arts degree requirements. Economics is the study of how people satisfy their wants in the face of limited resources. Economics is a consistent
ECON 102	Introductory Microeconomic Analysis and Policy 3 Credits	Methods of economic analysis and their use; price determination; theory of the firm and distribution. ECON 102 Introductory Microeconomic Analysis and Policy (3)(GS)(BA) This course meets the Bachelor of Arts degree requ
ECON 102H	Introductory Microeconomic Analysis and Policy (Honors) 3 Credits	ECON 102H Introductory Microeconomic Analysis and Policy, Honors (3)(GS)(BA) This course meets the Bachelor of Arts degree requirements. Economics is the study of how people satisfy their wants in the face of limited re
ECON 104	Introductory Macroeconomic Analysis and Policy 3 Credits	This course meets the Bachelor of Arts degree requirements. Economics is the study of how people satisfy their wants in the face of limited resources. One way to think about economics is that it is a consistent set of methoc
ECON 104H	Introductory Macroeconomic Analysis and Policy (Honors) 3 Credits	ECON 104H Introductory Macroeconomic Analysis and Policy (3)(GS)(BA) This course meets the Bachelor of Arts degree requirements. Economics is the study of how people satisfy their wants in the face of limited resources
ECON 106	Statistical Foundations for Econometrics 3 Credits	ECON 106 is an introductory course in economics/statistics which is designed to prepare students for econometrics (ECON 306). The course emphasizes working with data and statistical ideas. Students will develop a work
ECON 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ECON 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ECON 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ECON 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ECON 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ECON 302	Intermediate Microeconomic Analysis 3 Credits	ECON 302, Intermediate Microeconomics (3 credits) (GS) (BA). This course teaches microeconomic theory at an intermediate undergraduate level, taking a more mathematical approach. Major components of the course are
ECON 302H	Intermediate Microeconomic Analysis (Honors) 3 Credits	ECON 302H Intermediate Microeconomic Analysis (Honors) (3) (GS) (BA) This course is the honors version of ECON302 and meets the Bachelor of Arts degree requirements. There are two branches within the discipline of ec
ECON 304	Intermediate Macroeconomic Analysis 3 Credits	ECON 304 (Intermediate Macroeconomics) (3) (GS) (BA). This course looks at the causes and consequences of business cycles. Students begin by examining key macroeconomic variables, including nominal and real interest
ECON 304H	Intermediate Macroeconomic Analysis (Honors) 3 Credits	ECON 304H Intermediate Macroeconomic Analysis (Honors) (3) (GS) (BA) This course is the honors version of ECON304 and meets the Bachelor of Arts degree requirements. There are two branches within the discipline of ec
ECON 306	Introduction to Econometrics 3 Credits	The implementation of statistical techniques to analyze data and address economic questions. Econometric results are produced and assessed.
ECON 306H	Introduction to Econometrics 3 Credits	The implementation of statistical techniques to analyze data and address economic questions. Econometric results are produced and assessed. ECON 306H Introduction to Econometrics (3) In this course students learn ba
ECON 315	Labor Economics 3 Credits	Labor Economics, ECON 315 (3 credits) (GS) (BA). This course is designed to develop the concepts and techniques of labor economic theory and its applications. Key questions to consider for the course include: Why do so
ECON 323	Public Finance 3 Credits	ECON 323, Public Finance (3) (GS) (BA). This course examines contemporary fiscal institutions in the United States, public expenditures, public revenues, and the incidence of major taxes such as the personal income tax, th
ECON 333	International Economics 3 Credits	ECON 333, International Economics (3 credits) (GS) (BA). This course applies the knowledge from Introductory of Microeconomics (ECON 102) and Introductory of Macroeconomics (ECON 104) into International trade. Stude
ECON 342	Industrial Organization 3 Credits	Industrial Organization (3 credits) (GS) (BA) Industrial Organization focuses on the study of markets with imperfect competition. After reviewing the Perfect Competition model, the assumptions of that model are systematically
ECON 351	Money and Banking 3 Credits	Money, credit, commercial and central banking, financial intermediaries, treasury operations, monetary policy. Students who have already taken ECON 451 may not schedule this course. ECON 351 Money and Banking (3)(B

ECON 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ECON 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
ECON 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ECON 400M	Honors Seminar in Economics 3-12 Credits/Maximum of 12	Readings, discussion, and oral and written reports on selected topics in economics.
ECON 402	Decision Making and Strategy in Economics 3 Credits	Development and application of the tools for decision making under uncertainty and for game theoretic analysis of economic problems.
ECON 407	Political Economy 3 Credits	Applications of the tools of game theory to analyze topics in collective decision making.
ECON 410	Economics of Labor Markets 3 Credits	Economic analysis of the employment relationship from the microeconomic perspective, with emphasis on current labor-market problems and public policy issues.
ECON 411	Behavioral Economics 3 Credits	Topics in behavioral economics; selected games; evolutionary models of social behavior, herding, overconfidence.
ECON 412	Labor Economics and Labor Markets: Theory, Evidence, and Policy 3 Credits	Advanced topics in labor economics: theory, empirical evidence, and policy. ECON 412 Labor Economics and Labor Markets: Theory, Evidence, and Policy(3)This course is an advanced course in labor economics. Its covera
ECON 413	Economic Growth and the Challenges of World Poverty 3 Credits	This course is for those who are interested in the challenge posed by persistent world poverty. We will address many different poverty related issues and the goal is to examine how economists can contribute to shedding ligh
ECON 415	The Economics of Global Climate Change 3 Credits	Evidence on climate change; economic models of the environment and market failure; cost-benefit analysis of policy options; carbon markets.
ECON 417	The Economics of Uncertainty 3 Credits	Uncertainty and Risk as related to finance, insurance, health, labor, industrial organization, and macroeconomics.
ECON 422	Applying Monetary Theory and Monetary History 3 Credits	This course provides a framework for the analysis of monetary history. The course objectives are to introduce students to the theoretical framework used by economists to study monetary theory, and to apply that framework
ECON 425	Economics of Public Expenditures 3 Credits	Analytic and policy aspects of public expenditure decisions; applications from areas of contemporary public interest.
ECON 428	Environmental Economics 3 Credits	Environmental pollution, the market economy, and optimal resource allocation; alternative control procedures; levels of environmental protection and public policy.
ECON 429	Public Finance and Fiscal Policy 3 Credits	Analysis of public revenue and expenditure structure primarily at the federal level; federalism; fiscal policy and public debt.
ECON 430	Regional Economic Analysis 3 Credits	Analysis of personal and industrial location decisions, regional economic growth, migration patterns, and regional policy; emphasis on tools and techniques.
ECON 432	Urban Economics 3 Credits	Theories and methods for economic analysis of such urban problems as housing, segregation, government services, and transportation.
ECON 433	Advanced International Trade Theory and Policy 3 Credits	Causes/consequences of trade; effects of tariffs and quotas; strategic trade policy; political economy of trade restrictions and other topics.
ECON 434	International Finance and Open Economy Macroeconomics 3 Credits	Trade balance movements, exchange rate determination; monetary and fiscal policies in open economies; international policy coordination; the world monetary system.
ECON 436	Economics of Discrimination 3 Credits	Analysis of the economic characteristics of women and minorities; with examination of race and sex discrimination and related government policies.
ECON 437	Multinationals and the Globalization of Production 3 Credits	Globalization entails many dimensions: trade, migration, FDI, offshoring, cross-border licensing of technologies.
ECON 438	Winners and Losers from Globalization 3 Credits	Globalization, US, International, Trade, Finance, Growth, Labor, Industrial Organization, Political Economics.
ECON 442	Managerial Economics 3 Credits	Application of economic theory to managerial decision making; risk, uncertainty; models and statistical techniques.
ECON 443	Economics of Law and Regulation 3 Credits	An economic analysis of property rights, contractual arrangements, illegal activities, and regulation; competitive problems due to externalities and market failure.
ECON 444	Economics of the Corporation 3 Credits	Coordination and incentive issues within a corporation. Topics include employment contracts, performance incentives and pricing of financial assets.
ECON 445	Health Economics 3 Credits	Economic analysis of U.S. health care system; planning, organization, and financing; current public policy issues and alternatives.
ECON 447	Economics of Sports 3 Credits	Topics in sports; demand, owners, ticket resale, leagues, markets, efficiency, antitrust, discrimination, collegiate sports.
ECON 448	Economics of Auctions and Procurements 3 Credits	Theoretical and empirical analyses of auctions and procurements; different modeling environments; econometric analysis of auction and procurement data.
ECON 449	Economics of Collusion 3 Credits/Maximum of 3	Collusion, Bidding Rings, Antitrust, Price Fixing, Incentives, Law
ECON 451	Monetary Theory and Policy 3 Credits	Monetary and income theory; monetary and fiscal policy.
ECON 452	Economics of the Financial Crisis 3 Credits	This course studies the economics of financial crises with special emphasis on 2008.
ECON 454	Economics of Mergers 3 Credits	It is not uncommon for two separate and distinct corporate entities within an industry to merge and become one firm. This course includes topics that examine the economics of mergers as well as economic policy with regar
ECON 460	Issues in Sports Economics 3 Credits	Economic analysis of professional and collegiate sports: organization, input and output markets, the public sector, decision-making, and public policy. ECON 460 Issues in Sports Economics (3) This course is designed to pr
ECON 465	Cross Sectional Econometrics 3 Credits	Econometrics, simultaneous equations, discrete choice, sample selection.
ECON 470	International Trade and Finance 3 Credits	Economic analysis of why nations trade, barriers to trade, the international monetary system, and macroeconomic policy in an open economy.
ECON 471	Growth and Development 3 Credits	Problems of capital formation, institutional considerations, theories of economic growth.
ECON 472N	Russian Economic History 3 Credits	Russia is the largest country on earth. It has had a major influence on world events, especially during the Soviet period. The Soviet period represents the greatest economic experiment ever undertaken. Russia has had a vast
ECON 474	Experimental and Behavioral Economics 3 Credits	experimental methods and experimental design and uses this framework to inform a careful examination of the strengths and limitations of economic theory in explaining actual human behavior in economic situations. When
ECON 475	Migration and Development 3 Credits	Human Capital Approach to Migration; Economics of Family Migration; Evidence: Micro and Macro Perspectives; Migration Policies.
ECON 479	Economics of Matching 3 Credits	There are many resource allocations that are not unilateral decisions but instead require approval from two sides of the market. This course provides the theoretical constructs for the analysis of matching in market environme
ECON 480	Mathematical Economics 3 Credits	Mathematical techniques employed in economic analysis; formal development of economic relationships.
ECON 481	Business Forecasting Techniques 3 Credits	A survey of contemporary business forecasting techniques, with emphasis on smoothing, decomposition, and regression techniques.
ECON 483	Economic Forecasting 3 Credits	Forecasting time series, using linear regression models and econometric software; useful forecasting models; financial and seasonal time series; trends. ECON 483 Economic Forecasting (3)This course is an applied econom
ECON 485	Econometric Techniques 3 Credits	Applying statistical techniques to test and explain economic relationships; integration of economic theory with observed economic phenomena.
ECON 489M	Honors Thesis 1-6 Credits/Maximum of 6	No description.
ECON 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ECON 494A	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ECON 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ECON 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ECON 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ECON 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ECON 499	Foreign Study--Economics 2-6 Credits/Maximum of 6	Study in selected countries of economic institutions and current economic problems.
EDUC 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDUC 100	First-Year Seminar in Education 1-3 Credits	This seminar explores theories of teaching and learning, the education of teachers and other school employees, issues of professional practice, and selected topics in national educational policy. The seminar also supports st
EDUC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDUC 199	Foreign Studies 1-12 Credits/Maximum of 12	Study of educational topics in a country other than the United States.
EDUC 205N	Critical Race Theory in the Humanities and Social Sciences 3 Credits	This course closely examines the place and power of race in America. By tracing the history of how race works in particular American institutions, such as public education, criminal justice, and federal housing, students will

EDUC 294	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EDUC 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experience, practica, or internships.
EDUC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDUC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDUC 302	Basic Preparation for Teaching 3 Credits	Philosophical, psychological issues in education; instructional objectives, lesson planning; evaluation, grading procedures; assessment, instruction of individual children. Field experience.
EDUC 303	Inclusive Practices in General Education Classrooms 3 Credits	This course is designed to examine the procedures, characteristics and strategies for working with special learners in the elementary school. EDUC 303 Inclusive Practices in General Education Classrooms (3) This course ex
EDUC 304	Classroom Organization and Management 3 Credits	Organization, integration of the elementary school day; classroom management, control techniques; audio-visual techniques.
EDUC 305	Creative Arts 3 Credits	Experiences in self-expression through a variety of visual and performing arts. Techniques for guiding school children in artistic expression. EDUC 305 Creative Arts (3) This is an arts education course for elementary educatio
EDUC 306	Physical Education, Health, and Safety in Elementary Schools 2 Credits	A study of appropriate activities for elementary-age children. Student participation in physical activities is required. This course is designed to prepare elementary classroom teachers to provide age appropriate instruction rela
EDUC 313	Secondary Education Field Experience 2 Credits	Secondary classroom observation and participation - Students in this course engage in an extended (10 weeks, 2 days a week) field experience while concurrently enrolled in EDUC 314. Students are assigned to a middle or
EDUC 314	Learning Theory and Instructional Procedures 3 Credits	Theories of learning in relation to instructional practices. Analysis of motivation, transfer of learning, and retention (3) This learning theory and practice course provides students with an understanding of major concepts, princ
EDUC 315Y	Social and Cultural Factors in Education 3 Credits	Critical examination of how different experiences linked to race, ethnicity, religion, gender, and sexual orientation influence education.
EDUC 320	Methods in Teaching Beginning Readers 3 Credits	Concepts, methods, and materials for developing beginning reading abilities, with emphasis on personalized instruction through diagnostic teaching.
EDUC 321	Methods in Teaching Intermediate and Advanced Readers 3 Credits	Concepts, methods, and materials for personalizing reading instruction with emphasis on extending personal and functional reading abilities beyond beginning reading.
EDUC 322	Adolescent Literature and Developmental Reading 3 Credits	Adolescent literature materials, reading principles, and practices suitable for an English class. EDUC 322 Adolescent Literature and Developmental Reading (3) This course is designed to prepare candidates with the objectiv
EDUC 352	Teaching Language Arts 3 Credits	Teaching the writing process, including speaking and listening skills in relation to oral and written composition.
EDUC 353	Teaching Elementary Social Studies 3 Credits	The theory and practice of elementary social studies instruction.
EDUC 385	Professional Development in Teaching 3 Credits	This course addresses practical issues central to the profession of teaching and, in some cases, specific to Pennsylvania.
EDUC 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required. A specific title may be used in each instance and will be entered on the student'
EDUC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDUC 399	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction
EDUC 400	Diversity and Cultural Awareness Practices in the K-12 Classroom 3 Credits	This course addresses diversity, cultural awareness and sensitivity about cultures, concepts and methods in society, communities and educational settings. EDUC 400 Diversity and Cultural Awareness Practices in the K-12
EDUC 402	Early Learning: Language and Concept Development 3 Credits	Examining the development of language and self-expression in young children, and the role of children's literature in facilitating development. EDUC 402 Early Learning: Language and Concept Development (3) This course e
EDUC 403	Curriculum for Early Childhood 3 Credits	Examining early childhood programs and methodology, focusing on areas of social studies, mathematics, and science.
EDUC 404	Young Children's Behavior: Observation and Evaluation 3 Credits	Observation, recording and evaluation of student behaviors, and the use of prescription techniques for early childhood students with special needs.
EDUC 408	Administration of Early Childhood Education Programs 3 Credits	The role of the early childhood administrator as it relates to regulations, staffing, management, funding and curriculum.
EDUC 410	The Child and Social Institutions 3 Credits	The effects of the family on a child's development, especially in the infancy and preschool years.
EDUC 414	Teaching Secondary Science 3 Credits	Study of the objectives, content, methods, and evaluation procedures of science. This course is designed to prepare students with the knowledge and methods necessary to teach secondary science in authentic integrative
EDUC 415	Teaching Secondary Social Studies 3 Credits	Study of the objectives, content, methods, and evaluation of procedures of social studies. Students design units and lesson plans. EDUC 415 Teaching Secondary Social Studies (3) This course is designed to prepare social
EDUC 416	Teaching Secondary English and the Humanities 3 Credits	Study of the objectives, content, and methods of English and humanities courses. EDUC 416 Teaching Secondary English and the Humanities (3) This course is designed to prepare candidates with the objectives, content, m
EDUC 417	Teaching Secondary Mathematics 3 Credits	Study of the objectives, content, methods, and evaluation procedures of mathematics. EDUC 417 Teaching Secondary Mathematics (3) This course is designed to prepare students with the methods and knowledge necessa
EDUC 418	Positive Classroom Climate for Positive Attitudes About Learning 3 Credits	Participants will learn strategies for creating classroom climates which encourage positive attitudes toward learning while preventing and correcting student misbehavior.
EDUC 421	Children's Literature 3 Credits	Knowledge of literature appropriate for elementary school children and utilization of literature-related activities in teaching reading.
EDUC 422	Literature for Children and Adolescents 3 Credits	Literature for children and adolescents, approaches for using such literature in the school curriculum. EDUC 422 Literature for Children and Adolescents (3)This course, which is required for students enrolled in the Reading S
EDUC 425	Literacy Assessment 3 Credits	This course emphasizes alternative literacy measures focusing on portfolio assessment and performance assessments.
EDUC 432	Children's Literature in Teaching Writing 3 Credits	Introduction to introduces methods for transferring writing skills and literary devices from literature to student writing in all subject areas.
EDUC 435	Addressing the Needs of Special Learners 1 Credits	An examination of attitudes toward, barriers experienced by, and special needs of special learners in the schools.
EDUC 440	Educational Statistics and Measurements 3 Credits	Descriptive statistics, correlation, reliability, validity, scaling techniques, and introduction to item analysis.
EDUC 450	Current Topics in Education 1-15 Credits/Maximum of 15	No description.
EDUC 452	Teaching Writing 3 Credits	Techniques for teaching the writing process, kindergarten through grade 12, including writing in content areas; workshop format.
EDUC 454	Modern Elementary Science Education 3 Credits	This course exposes candidates to content, knowledge and teaching pedagogy as they relate to science and science education. The science content knowledge is primarily focused on Biological Sciences, Physical Sciences
EDUC 458	Behavior Management Strategies for Inclusive Classrooms 3 Credits	Provides knowledge and skills essential for designing positive learning environments in secondary classrooms with the inclusion of exceptional learners. EDUC 458 Behavior Management Strategies for Inclusive Classrooms
EDUC 459	Strategies for Effective Teaching in Inclusive Classrooms 3 Credits	Course examines effective strategies for accommodating and adapting instruction for exceptional learners in secondary classrooms. EDUC 459 Strategies for Effective Teaching in Inclusive Classrooms (3)This course will ex
EDUC 463	Teaching With Modern Web Technologies 3 Credits	Relates educational theory and practice to applications of the modern Web, applying content from educational foundations, curriculum, and research. EDUC 463 Teaching With Modern Web Technologies (3) This course focu
EDUC 464	Technology and the Learning Process 3 Credits	Evaluates the relationship between technology-based resources and learning theories through design, implementation, and evaluation of online instructional modules. EDUC 464 Technology and the Learning Process (3)Desi
EDUC 466N	Foundations of Teaching English as a Second Language 3 Credits	Overview of various legal, historical, and socio-cultural implications of teaching and learning English as a Second Language. This course is the first course in a five-course sequence designed to meet the Pennsylvania Depart
EDUC 467	English Language Structure for English as a Second Language Teachers 3 Credits	An in-depth study and review of general linguistic concepts and their application to ESL pedagogy. EDUC 467 English Language Structure for ESL Teachers (3) EDUC 467 is the second course in a four-course, 12-credit seq
EDUC 468	Language Acquisition for English as a Second Language Teachers 3 Credits	Study of the theory, research, and processes involved in first and second language development, acquisition, and assessment. EDUC 468 Language Acquisition for ESL Teachers (3) EDUC 468 is the third course in a four-co
EDUC 469	Teaching Methods and Assessment of English as a Second Language 3 Credits	Integration of theory, research, and practice about ESL curriculum, instructional methods, assessment, and literacy development. EDUC 469 Teaching Methods and Assessment of English as a Second Language (3) EDUC 4
EDUC 470W	Higher-Order Thinking for Educators 3 Credits	Presentation of strategies, techniques, and principles of higher-order thinking which are grounded in relevant research and practice will be presented. EDUC 470W Higher Order Thinking for Educators (3)This required course
EDUC 471	Best Practices in Literacy 3 Credits	An application of best literacy practices to classroom instruction and assessment of reading, writing, listening, and speaking. EDUC 471 Best Practices in Literacy (3) This course is offered to support the Masters of Educatio
EDUC 472	Teaching Reading Through the Content Areas 3 Credits	Designed to enable teachers of content areas to improve the reading/study skills needed by their students.
EDUC 475	ESL Leadership, Research and Advocacy 3 Credits	Teachers will develop their skills as instructional leaders and researchers by conducting school-based action research projects. EDUC 475 ESL Leadership, Research and Advocacy (3)EDUC 475, the capstone course in the
EDUC 477	Literacy Instruction and Evidence-Based Interventions 3 Credits	Students in this course will demonstrate knowledge of multi-tiered comprehensive literacy programs that incorporate all essential elements of reading: vocabulary development, early intervention, early literacy, assessment, p
EDUC 478	Secondary Transition for Students with Disabilities 3 Credits	Process and procedures for successful transition of secondary students with disabilities.
EDUC 484	School Law for Teachers 3 Credits	This course will focus on increasing teacher awareness of law and how it impacts on daily performance and job security.
EDUC 490	Student Teaching 1-12 Credits/Maximum of 12	Observation and teaching in selected elementary or secondary schools under direction of cooperating classroom teachers and University supervisors. Regular seminars. GPA 3.0 or higher. Passing scores on required Praxis
EDUC 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.

EDUC 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EDUC 495	Internship 1-15 Credits/Maximum of 15	Supervised off-campus, non-group instruction including individual field experiences, practicums or internships. Written and oral critique of activity required.
EDUC 495A	Junior Field Experience 1 Credits	EDUC 495A Junior Field Experience (1) This course is designed to provide Elementary Education majors with an intensive field experience that acquaints the student with the 'real' world of elementary education in a suburbar
EDUC 495B	Senior Field Experience 3 Credits	EDUC 495B Senior Field Experience (1) This course is designed to provide Elementary and Middle-Level Education majors with an intensive field experience that acquaints the student with the `real¿ world of elementary educ
EDUC 495C	Early Childhood Field Experience 1 Credits	EDUC 495C Early Childhood Field Experience (1) This course is designed to provide Early Childhood Education majors with an intensive field experience that acquaints the student with the, "real" world of early childhood edu
EDUC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EDUC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDUC 499	Foreign Studies 1-12 Credits/Maximum of 12	Study of educational topics in a country other than the United States.
EDMTH 301	Mathematics in Elementary Education I 3 Credits	Survey of content, pedagogy, and psychology of mathematics instruction relating to numbers, operations, geometry, measurement, and algebraic thinking for pre-school through fourth grade. EDMTH 301 Mathematics in Ele
EDMTH 302	Mathematics in Elementary Education II 3 Credits	Survey of content, pedagogy, and psychology of mathematics instruction relating to rational numbers, algebraic thinking and functions, geometry, measurement, data analysis, and probability for fourth through eighth grades.
EDMTH 441	Geometry and Measurement Across the K-12 Curriculum 3 Credits	The course presents participants with investigations of reports, research, and recent trends related to teaching geometry and measurement. EDMTH 441 Geometry and Measurement Across the K-12 Curriculum (3)This cour
EDMTH 442	Algebra and Functions Across the K-12 Curriculum 3 Credits	The course presents participants with investigations of reports, research, and recent trends related to teaching algebra and function concepts. EDMTH 442 Algebra and Functions Across the K-12 Curriculum (3)This course a
EDMTH 443	Data Analysis and Probability Across the K-12 Curriculum 3 Credits	The course presents participants with investigations of reports, research, and recent trends to teaching data analysis and probability concepts. EDMTH 443 Data Analysis and Probability Across the K-12 Curriculum (3)This c
EDMTH 444	Numbers and Operations Across the Curriculum 3 Credits	The course focuses on investigating reports, research, and recent trends related to teaching number and operation concepts K-12. A student who has passed MATH 200 may not take EDMTH 444 for credit.
EDLDR 409	Leadership Studies in Popular Film 3 Credits	In-depth analysis of leadership dynamics revealed in popular film. Focus on cinematic depictions of theory and practical application of leadership. EDLDR 409 Leadership Studies in Popular Film (3)Leadership Studies in Po
EDLDR 433	Education and Civil Rights 3 Credits	The United States is in the midst of a demographic transformation and by the middle of the 21st century, demographic projections suggest no one racial group will constitute a majority in the U.S. More than half of children ur
EDLDR 476	The Teacher and the Law 3 Credits	An introduction to education law as it affects the teacher. EDLDR 476 The Teacher and The Law (3) This course will provide an overview of major issues in law related to teachers. The course will focus primarily on case law i
EDLDR 480	Introduction to Educational Leadership 3 Credits	Development of educational leadership. Relationships among local, state, and federal agencies. Introduction to current concepts and theories. EDLDR 480 Introduction to Educational Leadership (3) Through lectures, reading
EDLDR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EDLDR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EDPSY 10	Individual Differences and Education 3 Credits	This course is an overview of the major theories and significant research on the development and explanation of individual differences and how those differences affect the education of school-age children. Specific topics inc
EDPSY 11	Educational Implications of Individual Differences in Childhood 3 Credits	EDPSY 11 is a course about individual differences in learners that may stem from biological and environmental influences on development and wellness. This course addresses the ways in which we consider these difference
EDPSY 14	Learning and Instruction 3 Credits	This introduction to educational psychology provides students with an understanding of the major concepts, principles and theories, and related research of learning and teaching. The research on learning and teaching is a p
EDPSY 14H	Learning and Instruction 3 Credits	Psychology of human learning applied toward the achievement of educational goals; evaluation of learning outcomes. EDPSY 014H Learning and Instruction (3) This course is designed to give honors students an applied intr
EDPSY 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDPSY 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDPSY 101	Analysis and Interpretation of Statistical Data in Education 3 Credits	This course is an introduction to quantitative methods in educational and social science research emphasizing the interpretation of frequently encountered statistical procedures. Students will learn both conceptual and techn
EDPSY 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDPSY 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDPSY 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EDPSY 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EDPSY 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDPSY 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EDPSY 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDPSY 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDPSY 400	Introduction to Statistics in Educational Research 3 Credits	The foundations of statistical techniques used in educational research; distributions, central tendency, variability, correlation, regression, probability, sampling, hypothesis testing.
EDPSY 406	Applied Statistical Inference for the Behavioral Sciences 3 Credits	This course introduces evidence-based decision making in education and the social sciences. The topical focus is on descriptive and inferential statistical concepts and procedures applied to univariate distributions including
EDPSY 408	Meeting Instructional Needs of English Language Learners with Special Needs 3 Credits	A major objective of this course is for students to be able to develop or modify instructional plans that reflect evidence based practices for adapting for the needs of English Language Learners (ELL) with special needs. The c
EDPSY 421	Learning Processes in Relation to Educational Practices 3 Credits	This course covers the major theories used to explain learning across educational settings. Students will learn foundational assumptions and concepts in each theory with a primary focus on the principles that have been forv
EDPSY 450	Principles of Measurement 3 Credits	This is an introductory course about properties of test scores such as reliability and validity. In addition, the course focuses on the construction and evaluation of measurement instruments used in educational and psychologi
EDPSY 475	Introduction to Educational Research 3 Credits	This is an introductory course about research methods used in educational research. Students will learn how to evaluate research in educational and applied settings and acquire knowledge needed to design a research stud
EDPSY 493	Child Maltreatment and Advocacy Studies: Capstone Experience 1-3 Credits/Maximum of 3	This course serves as the capstone experience for students enrolled in the Child Maltreatment and Advocacy Studies minor.
EDPSY 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EDPSY 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EDTEC 467	Emerging Web Technologies and Learning 3 Credits	This course examines emerging Web technologies and explores their application to learning and education.
EDTHP 99	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
EDTHP 115	Education in American Society 3 Credits	This course introduces students to the historical, political, philosophical, and sociological forces that have shaped the course of schooling in the United States. Through a semester-long analysis of a range of educational poli

EDTHP 115A	Competing Rights: Issues in American Education 3 Credits	An examination of educational issues relevant to democratic citizenship; emphasis is on understanding the relationship among politics, schools, and society. EDTHP 115A Competing Rights: Issues in American Education (3)
EDTHP 115S	Competing Rights: Issues in American Education 3 Credits	An examination of educational issues relevant to democratic citizenship; emphasis is on understanding the relationship among politics, schools, and society. EDTHP 115S Competing Rights: Issues in American Education (3)
EDTHP 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDTHP 200	Educational Reform and Public Policy 3 Credits	This course uses an interdisciplinary approach to explore the policies and reforms that shape the nation's largest social institution: public schools. This course is designed for students interested in understanding broad issue
EDTHP 220	Children, Parents and Schools 3 Credits	This course examines the space within which parents, children and schools interact. We will look in depth and breadth at economic, social, cultural, and emotional factors that shape these relationships. Sociological perspect
EDTHP 234	Honors Leadership Jumpstart 3 Credits	Intensive survey of contemporary leadership theory joined with practice, team-building skills, policy formation and influence, and service leadership. EDTHP 234H Honors Leadership Jumpstart (3) This is an intensive honors
EDTHP 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject which may be offered infrequently.
EDTHP 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
EDTHP 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDTHP 394	Professional Development in Education and Public Policy 3 Credits	This course develops professional skills and opportunities to prepare students for field placement and future employment or study. It focuses on the development of personal understanding of educational policy in a wide ran
EDTHP 395	Field Experience in Education and Public Policy 3 Credits	This course structures a summer field experience, research project, and service in an off-site educational policy organization. EDTHP 395 Field Experience in Education and Public Policy (3)This course structures a summer s
EDTHP 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDTHP 401	Introduction to Comparative Education 3 Credits	Origins, nature, scope, basic literature, and methodology of comparative education. Study of sample topics. CI ED 401 CI ED (EDTHP) 401 Introduction to Comparative and International Education (3) (IL) The course introduc
EDTHP 410	The Global Impact of Education 3 Credits	This course examines the global impact of education on human rights, health, economic development, political mobilization, religion, and environmental sustainability. The education revolution has significantly changed the w
EDTHP 412	Education and the Status of Women 3 Credits	An examination of the relationship of education to the status of women in American society.
EDTHP 416	Sociology of Education 3 Credits	The theoretical, conceptual, and descriptive contributions of sociology to education.
EDTHP 420	Education and Public Policy 3 Credits	Focus on the development and analysis of education policy, and policy's influence on schools. EDTHP 420 Education and Public Policy (3) This course examines the inherently political process in which educational policies a
EDTHP 426	Economic Foundations of Education Policy 3 Credits	This course is designed for undergraduate students interested in understanding the economic dimensions of education. Students will be shown how to apply economic models to fundamental questions of education policy.
EDTHP 427	Intelligence and Educational Policy 3 Credits	This course explores the concept of intelligence and its assessment from historical, psychological, educational and policy perspectives. EDTHP 427 Intelligence and Education Policy (3) In this course, we will focus on two ma
EDTHP 430	History of Education in the United States 3 Credits	American educational ideas and practice critically examined in terms of their historical development and contemporary significance.
EDTHP 433	Education and Civil Rights 3 Credits	The United States is in the midst of a demographic transformation and by the middle of the 21st century, demographic projections suggest no one racial group will constitute a majority in the U.S. More than half of children ur
EDTHP 434	Honors Teaching Experience in Leadership Jumpstart 1 Credits/Maximum of 3	Guided instruction and practical experience for teaching assistants to the Honors Leadership Jumpstart course (EDTHP 234H). EDTHP 434H Honors Teaching Experience in Leadership Jumpstart (1) This course trains and s
EDTHP 435	Child Labor and Education in the Global Economy 3 Credits	The legal instruments and social science theories useful for understanding and combating child labor through education policy and practice.
EDTHP 440	Introduction to Philosophy of Education 3 Credits	Introduction to the examination of educational theory and practice from philosophical perspectives, classical and contemporary. CI ED 440 CI ED (EDTHP) 440 Introduction to Philosophy of Education (3) The major objective
EDTHP 447	Ethnic Minorities and Schools in the United States 3 Credits	Analysis of the social and cultural factors which affect educational outcomes among minority pupils, especially Blacks, Hispanics, and Indians.
EDTHP 492	Identities, Power and Perceptual Pedagogies in Teaching and Learning 3 Credits	Students will perform inquires into the intersections of identities, power, and pedagogical formations in relation to urban teaching/learning contexts. AFAM 492 / CI 492 / EDTHP 492 Identities, Power and Perceptual Pedagog
EDTHP 496	Individual Studies 1-18 Credits/Maximum of 18	Creative projects supervised on an individual basis and which fall outside the scope of formal courses.
EDTHP 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject which may be offered infrequently.
EE 8	Introduction to Digital Music 1 Credits	First-year seminar that discusses digital music from an electrical engineering perspective; topics include sampling, digital filtering, compression, and music synthesis. E E 008S Introduction to Digital Music (1) (FYS) E E 008S
EE 9	First-Year Seminar in Electrical Engineering 1 Credits	First-year seminar covering a variety of Electrical Engineering topics that vary from year to year. E E 009S First-Year Seminar in Electrical Engineering (1) (FYS) The overall objectives of Engineering First-Year Seminars are to
EE 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to exlore, in depth, a comparatively narrow subject which may be topical or of special interest.
EE 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EE 200	Design Tools 3 Credits	A working knowledge of electrical engineering design tools and hardware realization of electrical engineering systems. E E 200 Design Tools (3) E E 200 provides students with a working set of design tools that are required t
EE 210	Circuits and Devices 4 Credits	EE 210 serves as the gateway course for all subsequent coursework in Electrical Engineering. It introduces engineering circuit analysis to students headed towards Electrical Engineering and related fields. The course include
EE 211	Electrical Circuits and Power Distribution 3 Credits	D.C. and A.C. circuits, transformers, single and three-phase distribution systems, A.C. motors and generators.
EE 212	Introduction to Electronic Measuring Systems 3 Credits	Electronic devices and characteristics, amplifiers and feedback, electronic instruments and recording systems. Designed for non-electrical engineering students.
EE 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to exlore, in depth, a comparatively narrow subject which may be topical or of special interest.
EE 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EE 300W	Design Process 3 Credits	Introduction to the electrical engineering design process, project teaming and management, and technical communication. E E 300W Design Process (3) E E 300W course will introduce students to the electrical engineering
EE 310	Electronic Circuit Design I 4 Credits	EE 310 provides the foundational education in electronic circuit analysis and design through lecture, laboratory, and out-of-class assignments. In EE 310, students learn about the electrical properties of different fundamental
EE 311	Electronic Circuit Design II 3 Credits	Electronic circuit design with consideration to single and multi-device subcircuits, frequency response characteristics, feedback, stability, efficiency, and IC techniques. E E 311 Electronic Circuit Design II (3) E E 311 is intend
EE 312	Electrical Circuit Analysis 3 Credits	Circuit analysis techniques; mutual inductance; frequency response; FOURIER series; LAPLACE transform.
EE 313W	Electronic Circuit Design II 4 Credits	Design/analysis of electronics circuits including: single/multistage transistor amplifiers, op amp circuits, feedback amplifiers, filters, A/D and D/A converters. E E 313W Electronic Circuit Design II (4) The prerequisite course, E

EE 314	Signals and Circuits II 3 Credits	Circuit analysis including op-amps, and ideal transformers; one/two port network models; three-phase and industrial loads; engineering professionalism.
EE 315	Electrical Signals and Circuits with Lab 5 Credits	Introduction to circuits, signals, energy, circuit analysis; frequency response, Bode diagrams, two-port networks; Laplace transforms, Polyphase circuits.
EE 316	Introduction to Embedded Microcontrollers 3 Credits	Introduction to microcontrollers in electronic and electromechanical systems. Hardware and software design for user/system interfaces, data acquisition, and control.
EE 317	Circuits II and Data Acquisition 2 Credits	E E 317 Circuits II and Data Acquisition This course is a follow up to the introductory circuit analysis course. The first part of this course is devoted to the study of multi-phase circuits, magnetic coupling, two-port networks a
EE 320	Introduction to Electro-Optical Engineering 3 Credits	An introduction covering several fundamental areas of modern optics, optical PROCESSES, AND DEVICES.
EE 330	Engineering Electromagnetics 4 Credits	Static electric and magnetic fields; solutions to static field problems, Maxwell's equations; electromagnetic waves; boundary conditions; engineering applications.
EE 331	Electromagnetic Fields and Waves 3 Credits	Electromagnetic field theory and applications; Maxwell's equations; plane wave propagation; boundary conditions; basic antenna theory; impedance matching. E E 331 Electromagnetic Fields and Waves (3) After completing
EE 337	Introduction to Quantum Information Science and Engineering 3 Credits	This course will introduce quantum mechanics from the perspective of quantum information science and engineering, focusing on two-level systems and the concepts of entanglement and decoherence. It will educate studer
EE 340	Introduction to Nanoelectronics 4 Credits	Introduction to the physics and technology of nanoelectronic devices. E E 340 Introduction to Nanoelectronics (4) This is a required course for junior-level electrical engineering students. The first part of the course provides a
EE 341	Semiconductor Device Principles 3 Credits	This course prepares students to learn electronic design by providing an understanding of how semiconductor devices work, how they are made, how they are modeled, how they fail, and how they are applied as discrete an
EE 350	Continuous-Time Linear Systems 4 Credits	Introduction to continuous-time linear system theory: differential equation models, sinusoidal steady-state analysis, convolution, Laplace transform and Fourier analysis.
EE 351	Discrete-Time Linear Systems 3 Credits	Introduction to discrete-time signal processing: sampling, linear time- invariant systems, discrete-time Fourier transform and discrete Fourier transform, Z transform.
EE 352	Signals and Systems: Continuous and Discrete-Time 4 Credits	Transient response, frequency response, Bode plots, resonance, filters, Laplace transform, Fourier series and transform, discrete-time signals/ systems; sampling z-transform. E E 352 Signals and Systems (4) E E 352 is a co
EE 353	Signals and Systems: Continuous and Discrete-Time 3 Credits	Fourier series and Fourier transform; discrete-time signals and systems and their Fourier analysis; sampling; z-transform. E E 353Signals and Systems: Continuous and Discrete Time (3) is a core course taken by all compute
EE 360	Communications Systems I 3 Credits	Generic communication system; signal transmission; digital communication systems; amplitude modulation; angle modulation. E E 360 Communications Systems (3) E E 360 is a junior-level elective course in the electrical er
EE 362	Communication Networks 3 Credits	Data transmission, encoding, link control techniques; communication network architecture, design; computer communication system architecture, protocols. CMPEN 362CMPEN (E E) 362 Communication Networks (3)CMPE
EE 380	Introduction to Linear Control Systems 3 Credits	State variables; time-domain and frequency-domain design and analysis; design of feedback control systems; Root Locus.
EE 383	Signals and Controls Laboratory 1 Credits	Design, computer simulation, and practical implementation of systems in the areas of filtering, digital signal processing, and controls. E E 383 Signals and Controls Laboratory (1) In this course, students will be exposed to de
EE 387	Energy Conversion 3 Credits	Modeling of induction machines, synchronous machines, transformers, and transmission lines. E E 387 Energy Conversion (3) E E 387 is an electrical engineering technical elective course intended for students with an intere
EE 388	Energy Conversion Laboratory 1 Credits	Learn the basic rules of electrical safety, power factor correction, and power measurement for balanced/unbalanced loads. This also includes operation and characteristics of single-phase and three-phase power transformer
EE 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EE 396	Independent Studies 1-4 Credits/Maximum of 4	Junior-level honors course involving special individual projects under the direction of an electrical engineering faculty member.
EE 397	Special Topics 1-9 Credits/Maximum of 9	FORMAL COURSES GIVEN INFREQUENTLY TO EXPLORE, IN DEPTH, A COMPARATIVELY NARROW SUBJECT THAT MAY BE TOPICAL OR OF SPECIAL INTEREST.
EE 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EE 400	Engineering Design Concepts 3 Credits	Engineering design and modelling, engineering economy, project planning, capstone project selection, and technical communication skills. E E 400 Engineering Design Concepts (3) This course prepares senior electrical eng
EE 401	Electrical Design Projects 3 Credits	Group design projects in the areas of electronics and electrical/computer systems. E E 401 Electrical Design Projects (3) In this course students complete their senior design project started in E E 400. Design groups meet re
EE 403W	Capstone Design 3 Credits	Design projects in the various areas and subdisciplines of electrical engineering, with an emphasis on technical communication skills. EE 403 Capstone Design (3) will give electrical engineering students a "real-world simulati
EE 405	Capstone Proposal Preparation 1-3 Credits	This course guides students in the development of their capstone design project proposal and will mimic the problems encountered by an engineer working in commercial, industrial, and governmental entities. Students will s
EE 406W	Electrical Engineering Capstone Design 3 Credits	Project designs of analog and digital systems, interfacing, and relevant electronic circuits, with an emphasis on technical communications skills. EE 406 Electrical Engineering Capstone Design(3) is designed with the following
EE 410	Linear Electronic Design 3 Credits	Linear circuit design via integrated circuit processes; A/D converters, switched capacitor filters, phase lock loops, multipliers, and voltage- controlled oscillators. E E 410 Linear Electronic Design (3) E E 410 is a technical elec
EE 413	Power Electronics 3 Credits	Switch-mode electrical power converters. Electrical characteristics and thermal limits of semiconductor switches. E E 413 Power Electronics (3) E E 413 is an elective course taken by undergraduate and graduate electrical e
EE 416	Digital Integrated Circuits 3 Credits	Analyses and design of digital integrated circuit building blocks, including logic gates, flip-flops, memory elements, analog switches, multiplexers, and converters. CMPEN 416CMPEN 416 Digital Integrated Circuits (3)CMPE
EE 417	Digital Design Using Field Programmable Devices 3 Credits	Field programmable device architectures and technologies; rapid prototyping using top down design techniques; quick response systems. CMPEN 417CMPEN (E E) 417 Digital Design Using Field Programmable Devices (3)F
EE 420	Electro-optics: Principles and Devices 3 Credits	Spatially linear system and transform; diffraction theory, partial coherence theory, optical image detection, storage and display, holography.
EE 421	Optical Fiber Communications 3 Credits	Operational principles of optical components, including sources, fibers and detectors, and the whole systems in optical fiber communications. E E 421 Optical Fiber Communications (3) E E 421 is an introduction course to fi
EE 422	Optical Engineering Laboratory 3 Credits	Hands-on experience covering areas of optical transforms, electro-optics devices, signal processing, fiber optics transmission, and holography.
EE 424	Principles and Applications of Lasers 3 Credits	Principles of lasers--generation, propagation, detection and modulation; applications in fiber optics communication, remote sensing, holography, optical switching and processing.
EE 430	Principles of Electromagnetic Fields 3 Credits	This course provides the grounding in fundamental laws of electromagnetics and provides practical training in solution of engineering electromagnetics problems. In particular, it investigates electric fields due to stationary ch
EE 432	RF and Microwave Engineering 3 Credits	Transmission line and waveguide characteristics and components; design of RF and microwave amplifiers, oscillators, and filters; measurement techniques; design projects.
EE 434	Introduction to Signal Integrity for Interconnects 4 Credits	This course provides a solid foundation in signal integrity for interconnects, the performance of which becomes the key factor in ensuring reliable system operation as the speed of new digital systems is pushed higher into th
EE 437	Physical implementation of qubits 3 Credits	Introduction to the physical implementation of quantum bits (qubits) based on state-of-the-art technologies. The course will consider issues in quantum information technology from an experimental point of view. The various
EE 438	Antenna Engineering 3 Credits	Radiation from small antennas, linear antenna characteristics, arrays of antennas, impedance concepts and measurements, multifrequency antennas, and aperture antennas. E E 438 Antenna Engineering (3) E E 438 is an ele
EE 441	Semiconductor Integrated Circuit Technology 3 Credits	An overview of fundamentals of processes involved in silicon integrated circuit fabrication through class lectures and hands-on laboratory. E E 441 Semiconductor Integrated Circuit Technology (3) E E 441 is an elective elect
EE 442	Solid State Devices 3 Credits	The physics of semiconductors as related to the characteristics and design of solid state electronic devices. E E 442 Solid State Devices (3) The objective of E E 442, an electrical engineering elective course taken by seniors
EE 453	Fundamentals of Digital Signal Processing 3 Credits	Design of FIR and IIR filters; DFT and its computation via FFT; applications of DFT; filter implementation; finite arithmetic effects. E E 453 Fundamentals of Digital Signal Processing (3) The objective of E E 453, an electrical er
EE 454	Fundamentals of Computer Vision 3 Credits	Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, object recognition, and dynamic scene analysis. CMPEN 454CMPEN 454 Fundamentals of Computer Vision (3)CM
EE 455	An Introduction to Digital Image Processing 3 Credits	Overview of digital image processing techniques and their applications; image sampling, enhancement, restoration, and analysis; computer projects. E E (CMPEN) 455 An Introduction to Digital Image Processing (3) E E/CMP
EE 456	Introduction to Neural Networks 3 Credits	Artificial Neural Networks as a solving tool for difficult problems for which conventional methods are not applicable. E E (E SC/EGEE) 456 Introduction to Neural Networks (3) This course is in response to students needs to le
EE 458	Digital Image Processing and Computer Vision 3 Credits	Principles of DSP and computer vision, including sensing preprocessing, segmentation, description, recognition, and interpretation.
EE 460	Communication Systems II 3 Credits	EE 460 is an elective course in the electrical engineering curricula that provides detailed performance analysis of communications systems first studied in introductory communications courses such as EE 360 or EE 461. The
EE 461	Communications I 4 Credits	Element of analog and digital communication systems, AM, FM, and digital modulation techniques, receivers, transmitters, and transmission systems, noise.
EE 465	Probability for Electrical and Computer Engineers 3 Credits	This course covers basic concepts in probability, including random variables, conditioning, independence, laws of large numbers, and statistical confidence. While covering these basic probability concepts, illustrative examp
EE 466	Introduction to Software-Defined Radio 3 Credits	An overview of the principles of software-defined radio systems with laboratory component.
EE 471	Introduction to Plasmas 3 Credits	This course provides the education on models that are used for description of plasma phenomena as applicable to plasma confinement, plasma assisted materials processing, astrophysical plasmas and plasmas in the near
EE 472	Space Astronomy and Introduction to Space Science 3 Credits	The physical nature of the objects in the solar system; the earth's atmosphere, ionosphere, radiation belts, magnetosphere, and orbital mechanics.
EE 474	Satellite Communications Systems 3 Credits	Overview of satellite communications systems, principles, space platforms, orbital mechanics, up/down links and link budgets, modulation techniques. E E 474 Satellite Communications Systems (3) This course is designed
EE 477	Fundamentals of Remote Sensing Systems 3 Credits	The review of fundamental physical properties leads into discussions of various techniques, including imaging, spectroscopy, radiometry, and active sensing.
EE 480	Linear Systems: Time Domain and Transform Analysis 3 Credits	Signals and systems representations, classifications, and analysis using; Difference and Differential equations, Laplace Transform, Z-Transform, Fourier series, FT, FFT, DFT. The major topics covered in this course include; Sig

EE 481	Control Systems 4 Credits	Classical/modern approaches to system analysis/design; time/frequency domain modeling, stability, response, optimization, and compensation. E E 481 Control Systems (4) This course presents both classical and modern a
EE 482	Introduction to Digital Control Systems 3 Credits	Sampling and hold operations; A/D and D/A conversions; modeling of digital systems; response evaluation; stability; basis of digital control; examples. E E 482 Introduction to Digital Control Systems (3) E E 482 introduces fu
EE 483	Introduction to Automation and Robotics Systems 3 Credits	Introduction to robotics systems with emphasis on robotic motion and control, and robotic components such as actuators and sensors.
EE 485	Energy Systems and Conversion 3 Credits	EE 485 is designed to give students an overview of available energy alternatives, and to study the fundamental theory of operation and system models for major energy conversion devices. The course is interspersed with co
EE 486	Sustainable Energy System Integration 3 Credits	EE 486 (Sustainable Energy System Integration) is an elective course that introduces typical renewable energy units and their integration and control strategies, including photovoltaic devices, wind power, batteries, supercap
EE 487	Electric Machinery and Drives 3 Credits	Analysis of variable-speed drives comprised of AC electric machines, power converters, and control systems. E E 487 Electric Machinery and Drives (3) This course is a technical elective intended for seniors and graduate st
EE 488	Power Systems Analysis I 3 Credits	Fundamentals, power transformers, transmission lines, power flow, fault calculations, power system controls.
EE 489	Power Systems Analysis II 3 Credits	Symmetrical components, unbalanced networks, unsymmetrical faults, unbalanced operation of rotating machines, transient transmission line modeling, system protection.
EE 494	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
EE 494H	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
EE 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EET 2	Introduction to Engineering Technology 1 Credits	Introduction to engineering technology and the use of computer methods for analyzing and solving engineering technology problems; microcomputer fundamentals, word processing, spreadsheet, and database software pac
EET 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EET 100	Electric Circuits, Power, and Electronics 3 Credits	AC and DC circuits; machinery; controls; and introduction to electronic devices, circuits, and instrumentation. EET 100 Electric Circuits, Power, and Electronics (3) Electric Circuits, Power, and Electronics is a course for non-n
EET 101	Electrical Circuits I 3 Credits	Fundamental theory of resistance, current, and voltage; capacitance, inductance. Direct current and alternating current concepts through series/ parallel circuits. EET 101EET 101 Electric Circuits I (3)Electric Circuits I has be
EET 105	Electrical Systems 3 Credits	Introduction to the study of electrical systems, with a focus on applications in our society. EET 105 Electrical Systems (3) is an introductory course in electrical systems and circuits. It is an entry level course intended to give
EET 109	Electrical Circuits Laboratory I 1 Credits	Use of basic electrical instruments to measure AC and DC voltage, current, power, resistance. Introduction to report writing. EET 109 Electric Circuits Laboratory I (1) Electric Circuits Laboratory I provides a variety of experie
EET 114	Electrical Circuits II 4 Credits	Direct and alternating current circuit analysis including Thevenin and Norton Theorems, mesh, node analysis. Capacitance, inductance, resonance, power, polyphase circuits. EET 114 ELECTRICAL CIRCUITS II (4) Electrical
EET 118	Electrical Circuits Laboratory 1 Credits	Use of basic electrical instruments to measure AC and DC voltage, current, power, resistance, and lab reporting. EET 118 Electrical Circuits Laboratory II (1) Electrical Circuits Laboratory is typically taken concurrently with EE
EET 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EET 212W	Op Amp and Integrated Circuit Electronics 4 Credits	Analysis and design of amplifier, rectifier, filter, comparator, oscillator, and other practical circuits using op amps and integrated circuit devices. EET 212W Op Amp and Integrated Circuit Electronics (4)EET 212W provides stu
EET 213W	Fundamentals of Electrical Machines Using Writing Skills 5 Credits	AC and DC machinery principles and applications; introduction to magnetic circuits, transformers, and electrical machines including laboratory applications. EET 213W Fundamentals of Electrical Machines Using Writing Skill
EET 214	Electric Machines and Energy Conversion 3 Credits	Fundamental operating principles, characteristics, and analysis of electric machines, transformers, and power systems. EET 214 Electric Machines and Energy Conversion (3)The purpose of EET 214 is to introduce students
EET 215	Electric Machines and Energy Conversion Laboratory 1 Credits	Laboratory study of electric machine applications, transformers, and power systems. EET 215 Electric Machines and Energy Conversion Laboratory (1)The purpose of EET 215 is to provide students with practical experience
EET 275	Introduction to Programmable Logic Controls 3 Credits	Principles of industrial control, programming, interfacing, input/output devices, and applications. EET 275 Introduction to Programmable Logic Controls (3)Introduction to Programmable Logic Controls is a required course for
EET 280	System Integration Project 1 Credits	Schematic design, circuit board layout and fabrication, mechanical housing fabrication.
EET 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EET 310	Direct and Alternating Current Circuits 5 Credits	EET 310 provides an introduction to basic electrical principles and covers the DC and AC circuit analysis techniques necessary for most upper-level EET courses. The course covers DC and AC sources, capacitors and induc
EET 311	Alternating Current Circuits 4 Credits	EET 311 Alternating Current Circuits (4) EET 311 is intended to provide competency in analysis of circuits and application of basic electrical principles including equivalent circuits and models, power and energy, and signal/er
EET 312	Electric Transients 4 Credits	EET 312 is designed to provide students with a strong foundation in transient circuit analysis in addition to introduction to signals and systems. The primary objective of the course is to reinforce continuous-time system funda
EET 315	Linear and Discrete System Analysis 3 Credits	Introduction to the principles and operation of linear and discrete systems. EET 315 Linear and Discrete System Analysis (3) Linear and Discrete System Analysis is a required course for junior-level students in the Electrical a
EET 320	Industrial Electricity and Electronics 3 Credits	Basic circuit theory applied to DC/AC circuits containing resistors, inductors, capacitors; magnetic circuits; power; control; electronic applications. EET 320 Industrial Electricity and Electronics (3) This course is designed to c
EET 330	Wireless Communications Systems 3 Credits	Wireless communications technology, transceivers, modulation techniques, serial communications, and applications. Personal area networks, local area networks, RFID systems. EET 330 Wireless Communications Systems
EET 331	Electronic Design 4 Credits	Analog/Digital and Digital/Analog Converters; advanced and nonlinear Op-Amp circuit design; noise analysis; Active Filters and Waveform Generators. EET 331 Electronic Design (4)E E T 330 is intended to provide competen
EET 341	Measurements and Instrumentation 3 Credits	Measurement concepts, transducers, electronic-aided measurement, mechanical and electrical measurements. Intended for electrical engineering technologists. EET 341 Measurements and Instrumentation (3) Measurements
EET 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EET 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EET 402	High-Frequency Circuit Design 4 Credits	EET 402 provides students with fundamental concepts in high frequency (RF and microwave) circuit design used in the development of front-end electronics in telecommunication systems. Students will gain familiarity with hi
EET 408	Communication System Design 4 Credits	This course is for students in Electrical Engineering Technology to gain understanding of the fundamental concepts and components of communication systems, supported by hands on experiments. Fundamentals of commu
EET 409	Power System Analysis I 4 Credits	This course will help students to understand power generation units, transmission lines, distribution systems and load flow. The main power system elements will be studied in detail. These elements include: generators (to ge
EET 410	Power System Analysis II 4 Credits	Power System Analysis II follows up the material from Power System Analysis I with more details on the analysis and calculation during faults or transients. Students will understand symmetrical faults such as three-phase an
EET 413	Optoelectronics 4 Credits	Principles and applications of optoelectronics including sources, detectors, imagers, transmitters, fiber optics, systems and integrated optics. This course is designed as an elective course for the EET senior undergraduate s
EET 414	Biomedical Instrumentation 4 Credits	Introduction to transducers and circuits used to detect and process medical physiological data with focus on cardiovascular and respiratory systems.
EET 416	Fluid and Thermal Design in Electrical Systems 3 Credits	Introduction to basic electrical engineering technology concepts and applications of thermodynamics, heat transfer, and fluid power in electrical/ electronic systems. EET 416 Fluid and Thermal Design in Electrical Systems (3
EET 419	Capstone Proposal Preparation 1-3 Credits	This course guides students in the development of their capstone design project proposal and will mimic the problems encountered by an engineer working in commercial, industrial, and governmental entities. Students will s
EET 420W	Electrical Design Project 3 Credits	Design, construction, and testing of a project either selected by the students with approval or assigned by the instructor. EET 420W Electrical Design Project (3) This course is designed with the following goals and objectives
EET 431	Advanced Electronic Design 4 Credits	Applications of analog and digital integrated circuits; introduction to analog and digital communication techniques.
EET 433	Control System Analysis and Design 4 Credits	Classical and modern control analysis and design approaches, such as Laplace and state-space, aided by analog and digital computers.
EET 440	Applied Feedback Controls 3 Credits	Analysis and design of analog and digital feedback control systems. EET 440 Applied Feedback Controls (3) Applied Feedback Controls is a required course for senior-level students pursuing the electrical engineering techno
EET 456	Automation and Robotics 4 Credits	Introduction to robotic systems and automation. Emphasis includes robot motion, control, and components, as well as programming PLCs. EET 456 Automation and Robotics (4) The objective of this course is to use a hand
EET 461	Power Electronics 3 Credits	Fundamentals of power electronic circuits, semiconductor power devices, power conversion equipment. Circuit topologies, closed-loop control strategies, equipment design consideration. EET 461 Power Electronics (3) Pov
EET 475	Intermediate Programmable Logic Controllers 3 Credits	Application of programmable logic controllers (PLCs) to data acquisition, automation and process control. EET 475 Intermediate Programmable Logic Controllers (3) Programmable logic controllers (PLCs) are the workhorse o
EET 478	Digital Communication Systems 4 Credits	Discrete signal analysis, A/D conversion, digital modulation techniques, encoding, decoding, data communication, noise.
EET 480	Electrical and Computer Systems Senior Seminar 1 Credits	Concepts of career development; project management; engineering design documentation; industrial design examples. EET 480 Electrical and Computer Systems Senior Seminar (1) Electrical and Computer Systems Senior

EET 490W	Electrical/Computer Senior Design Project 3 Credits	Individual or group design projects in electrical and computer engineering technology. EET 490W Electrical/Computer Senior Design Project (3) The Electrical/Computer Senior Design Project is a required course for senior-le
EET 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experience, practica or internships. Written and oral critique of activity required.
EET 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EET 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMET 100	Computation Tools for Engineering Synthesis 1 Credits/Maximum of 1	EMET 100 is a first semester course intended to introduce first-year EMET students to a core set of computational tools and simulation software that will be used repeatedly throughout the EMET curriculum to investigate eng
EMET 215	Manufacturing Engineering 3 Credits/Maximum of 3	EMET 215 is intended to introduce the student, in both a lecture and site visit setting, to production planning, and production routing for the purpose of part creation and assembly, manufacturing process and equipment layo
EMET 222	Applied Mechanics 3 Credits/Maximum of 3	The purpose of this course is to give students the ability to calculate engineering stresses, strains, and deflections in members subjected to different types of loading using the applied forces and reactions obtained from stati
EMET 225	Applied Dynamics 2 Credits/Maximum of 2	This course is designed to provide engineering technology students with knowledge in solving problems using fundamental laws and equations of motion that are applied to particles and rigid bodies. Dynamics is typically br
EMET 230	Computerized I/O Systems 3 Credits	Introduction to concepts of structured programming, data acquisition, computerized interfaces, and graphical user interfaces. EMET 230 Computerized I/O Systems (3) EMET 230 is designed to provide the students with the
EMET 325	Electric Drives 3 Credits	Study of operation, application and specification of AC/DC electrical drive motors, servos, actuators, control units and power converters. EMET 325 Electric Drives (3)EMET 325 provides students with a basic understanding
EMET 326	Mechanical Drives 3 Credits	Transmission of force and motion using linkages, cams, gears, belts, and hydraulic and pneumatic drives. EMET 326 Mechanical Drives (3)EMET 326 is designed to provide the students with the knowledge of various mecha
EMET 330	Measurement Theory and Instrumentation 3 Credits	Fundamentals of measuring, transmitting, and recording temperature, pressure, flow, force, displacement, and velocity; laboratory component emphasizes systems used in manufacturing. EMET 330 Measurement Theory an
EMET 350	Quality Control, Inspection, and Design 3 Credits	Fundamentals of quality including statistics, probability, and design of experiments. EMET 350 Quality Control, Inspection, and Design (3) The purpose of EMET 350 is to familiarize students with the use of statistical method
EMET 351	Quality Control, Inspection, and Design 2 Credits	The objective of Quality Control, Inspection, and Design is to introduce the student to fundamentals of quality including statistics, probability, and process control. EMET 351 will provide a fundamental understanding of mode
EMET 394	EMET Student Design Competition 1-3 Credits/Maximum of 3	Students collaborate on research and design of appropriate solutions to real-life problems and projects.
EMET 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EMET 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EMET 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMET 402	Fundamentals of Engineering Review 2 Credits	Overview of the topics covered on the Fundamentals of Engineering Exam administered by the NCEES for the purpose of earning a Professional Engineering license. EMET 402 Fundamentals of Engineering Review (2)EMET
EMET 403	Electromechanical Design Project Preparation 1 Credits	This course involves the planning and preliminary design activities for the capstone electro-mechanical design project. EMET 403 Electromechanical Design Project Preparation (1) EMET 403, Electromechanical Design Projec
EMET 405	Fluid Mechanics and Heat Transfer 3 Credits	Introduction to the principles of fluid mechanics and heat transfer with emphasis on the application to practical problems. EMET 405 Fluid Mechanics & Heat Transfer (3) This course is designed to provide students with knov
EMET 410	Automated Control Systems 4 Credits	Introduction to analog feedback control theory and computer simulation and analysis using Matlab; laboratory study of feedback systems. EMET 410 Automated Control Systems (4) Automated Control Systems is a required
EMET 430	Programmable Logic Controls II 3 Credits	A second course in PLCs covering sequencing/shift instructions, program flow control, data and math instructions, PID loops, and machine communication. EMET 430 Programmable Logic Controls II (3) The objective of EM
EMET 432	Electromechanical Devices for Biomedical Instrumentation 3 Credits	A study of electromechanical devices, transducers, and instrumentation used in the biomedical field. EMET 432 Electromechanical Devices for Biomedical Instrumentation (3) This course concentrates on electromechanical d
EMET 433	Smart Manufacturing 3 Credits	Exploration of central concepts and technologies of smart manufacturing with focus on the internet of things, data analytics for production data, simulation and digital twins, and process and manufacturing systems optimizat
EMET 440	Electro-Mechanical Project Design 3 Credits	Planning, development, and implementation of electro-mechanical design project; includes formal report writing, project documentation, group presentations, project demonstrations. EMET 440 Electro-Mechanical Project De
EMET 441	Mechatronics Project Design 2 Credits	Planning and development activities for the capstone electro-mechanical design project. Mechatronics Project Design involves working as a team member using appropriate management techniques in the investigation, anal
EMET 442	Mechatronics Project Implementation 2 Credits	Assembly and testing activities for the electro-mechanical design project. Mechatronics Project Implementation provides students with theoretical and practical experience associated with the integration of the various discip
EMET 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EMET 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EMET 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ELEDM 395W	**SPECIAL TOPICS** 2 Credits/Maximum of 6	No description
ELEDM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EGEE 12	Energy Science and Engineering Lectures 1 Credits	Lectures and discussion by faculty and visiting scientists/engineers on energy science and engineering, job selection, patents, licensing, ethics, and other professional issues and challenges. EGEE 012 Energy Science and E
EGEE 101	Energy and the Environment 3 Credits	Energy utilization and technological development, energy resources, conversion and consequences on the local and global environment, and future energy alternatives. EGEE (MATSC) 101 Energy and the Environment (3) (GN
EGEE 101A	Energy and the Environment 3 Credits	Energy utilization and technological development, energy resources, conversion and consequences on the local and global environment, and future energy alternatives. EGEE (MATSC) 101A Energy and the Environment (3) (
EGEE 101H	Energy and the Environment 3 Credits	Energy utilization and technological development, energy resources, conversion and consequences on the local and global environment, and future energy alternatives. EGEE 101H Energy and the Environment (3) (GN)Energ
EGEE 102	Energy Conservation for Environmental Protection 3 Credits	Energy is a vital component of modern society. Much of the general population believes that the energy sources we depend on are perpetual. While people believe that energy use is the culprit for environmental damage, they
EGEE 102H	Energy Conservation for Environmental Protection 3 Credits	Exposure to energy efficiency in day-to-day life to save money and energy, and thereby protect the environment. EGEE 102H Energy Conservation for Environmental Protection (3) (GN)Energy is a vital component of modern
EGEE 110N	Environmental Health and Safety Science 3 Credits	EGEE 110 Environmental Health and Safety Science (3) (GN) (GS). Environmental Health and Safety is an applied field with many aspects. It has engineering, science, psychology, and management components. For an under
EGEE 120	Oil: International Evolution 3 Credits	Oil is the world's most important commodity. Access to oil was decisive in the great military struggles of the 20th century. The economic and strategic value of oil has led to the evolution of a fascinating array of business, pol
EGEE 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EGEE 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.

EGEE 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EGEE 302	Principles of Energy Engineering 3 Credits	Basic engineering calculations and mathematical methodologies on material and energy balances and reaction rates during chemical transformations in energy systems. EGEE 302 Principles of Energy Engineering (3) This in
EGEE 304	Heat and Mass Transfer 3 Credits	Introduces the fundamentals of heat and mass transfer. Conduction, convection, radiation, and diffusion mass transfer will be emphasized. EGEE 304 Heat and Mass Transfer (3) This course will emphasize the modes of hea
EGEE 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EGEE 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EGEE 397N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course
EGEE 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EGEE 401	Energy in a Changing World 3 Credits	Energy is in transition, with increased international energy demand and increasing environmental pressures. Energy transitions, approaches, and outcomes are addressed. EGEE 401 Energy in a Changing World (3) The role
EGEE 405	Renewable Energy in Electricity Markets 3 Credits	This course covers the structure and economics of the power grid in the US and the role played by renewable generation on the existing system. The course begins by introducing students to the structure of the power grid a
EGEE 411W	Energy Science and Engineering Lab 3 Credits	A comprehensive introduction to classic and modern laboratory skills and experimentation of relevance to energy science and engineering practice.
EGEE 412	Green Engineering & Environmental Compliance 3 Credits	Material and energy flows as they relate to industrial systems, environmental concerns, pollution prevention, and the development of clean technologies. EGEE 412 Green Engineering & Environmental Compliance (3) The pri
EGEE 420	Hydrogen and Fuel Cells 3 Credits	Course will cover the fundamental principles of electrochemical engineering, hydrogen production and storage, and the design and application of the main types of fuel cells. EGEE 420 Hydrogen and Fuel Cells (3) The prima
EGEE 430	Introduction to Combustion 3 Credits	Concepts related to laminar and turbulent premixed and nonpremixed combustion with applications to propulsion and stationary systems. EGEE (M E) 430 Introduction to Combustion (3) This course provides an introductory
EGEE 436	Modern Thermodynamics for Energy Systems 3 Credits	Thermodynamics of external fields, theory of stability and fluctuations, irreversible and non-linear thermodynamics, and bifurcation theory and their applications in energy and environmental processes are discussed. This co
EGEE 437	Design of Solar Energy Conversion Systems 3 Credits	A review of fundamental concepts in solar energy conversion including photovoltaic (PV) and solar thermal conversion systems. The course examines the principles of solar energy conversion to build a foundation for explaini
EGEE 438	Wind and Hydropower Energy Conversion 3 Credits	Principles of sustainability and renewable energy conversion with emphasis on wind and hydrokinetic energy resources. EGEE 438 Wind and Hydropower Energy Conversion (3) This course examines the principles of sustain
EGEE 439	Alternative Fuels from Biomass Sources 3 Credits	This course will examine technologies of bio-based sources for power generation and transportation, the effect on the environment, and the viability of the use of bio-based energy sources to mitigate energy needs and minin
EGEE 441	Electrochemical Engineering Fundamentals 3 Credits	Course covers fundamental principles of electrochemistry, including electrochemical thermodynamics, kinetics, catalysis, and corrosion and focuses on applications such as fuel cells, batteries, and photovoltaics. Each appli
EGEE 442	Electrochemical Methods 3 Credits	This course is for senior undergraduates, graduate students and professionals to learn electrochemical techniques and data analysis. EGEE 442 Electrochemical Methods (3) This course is (1) for undergraduate and graduate
EGEE 451	Energy Conversion Processes 3 Credits	Emphasizes processes for conversion of fossil fuels, nuclear and biomass to other fuel forms as transportation fuels and electricity. EGEE 451 Energy Conversion Processes (3) The primary objective of this course is to expos
EGEE 455	Materials for Energy Applications 3 Credits	Overview of key principles and technologies for materials relevant to energy applications, including membranes, catalysis, supercapacitors, adsorbents, and semi-conductors. EGEE 455 Materials for Energy Applications (3)
EGEE 456	Introduction to Neural Networks 3 Credits	Artificial Neural Networks as a solving tool for difficult problems for which conventional methods are not applicable. E E (E SC/EGEE) 456 Introduction to Neural Networks (3) This course is in response to students needs to le
EGEE 464W	Energy Design Project 3 Credits	A team and capstone design project on an industrial energy-related problem.
EGEE 470	Air Pollutants from Combustion Sources 3 Credits	Generation of pollutants in combustion chambers; reduction by combustion control; pre- and post-combustion treatment of fuels and effluents.
EGEE 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EGEE 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
EGEE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EGEE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EGEE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EME 210	Data Analytics for Energy Systems 3 Credits	Data Analytics for Energy Systems merges introductory statistics with coding through simulation-based inference. Class lectures are split between discussing the concepts and illustrating their application through coding exa
EME 301	Thermodynamics in Energy and Mineral Engineering 3 Credits	Treatment of classical thermodynamics targeted to the needs of students in the Department of Energy and Mineral Engineering.
EME 303	Fluid Mechanics in Energy and Mineral Engineering 3 Credits	Treatment of fluid mechanics targeted to the needs of students in the Department of EME.
EME 407	Electrochemical Energy Storage 3 Credits	Electrochemical concepts in energy storage devices, cell construction and materials involved in batteries and capacitors, electrochemical testing methods and applications.
EME 432	Energy Policy 3 Credits	Analysis, formulation, implementation, and impacts of energy-related policies, regulations, and initiatives.
EME 444	Global Energy Enterprise 3 Credits	Global Energy Enterprise provides in-depth insight into the role that public and private nonmarket actors and actions play in contemporary energy markets through a variety of artifacts and case studies. Students perform a n
EME 450	Energy Crisis Leadership 3 Credits	Energy Crisis Leadership prepares students to lead in high-pressure, high-stakes environments. This is an interactive class that utilizes case studies to help students solve open-ended and complex problems. The case studie
EME 460	Geo-resource Evaluation and Investment Analysis 3 Credits	The course covers engineering evaluation of geo-resources, present value and rate of return analysis, mineral property and reserve estimation, and cost estimation and engineering economy concepts applied to geo-resource
EME 466	Energy and Sustainability in Society 3 Credits	EME 466 provides the culminating experience for Energy and Sustainability Policy majors through an individualized inquiry-based capstone project in which students tackle the wicked problems of sustainability they see and
EBF 200	Introduction to Energy and Earth Sciences Economics 3 Credits	Resource use decisions and their effect on local, national, and global development. EBF 200 Introduction to Energy and Earth Sciences Economics (3) (GS)(BA) This course meets the Bachelor of Arts degree requirements. Fa
EBF 301	Global Finance for the Earth, Energy, and Materials Industries 3 Credits	The aim of this course is to introduce fundamental concepts of financial management and illustrate their global applications.
EBF 304W	Global Management for the Earth, Energy, and Materials Industries 3 Credits	The real world is often complex and unstructured. A major goal of this course is to teach you how to structure "real-world" environmental and energy problems that involve business decisions in the face of uncertainty. The fo
EBF 401	Strategic Corporate Finance for the Earth, Energy, and Materials Industries 3 Credits	The objective of this course is to give students a working knowledge of the major tools used by financial managers for making investment and financing decisions. Topics include, but are not limited to: time value of money, tr
EBF 402	Energy Law and Contracts 3 Credits	An examination of the law that applies to acquiring the property rights for exploration and drilling of energy sources. This course examines the area of energy law and contracts, which is crucial to successful drilling in natural
EBF 404W	The Great Energy Transition: Law, Economics, and New Frontiers 3 Credits	The U.S. energy sector is in the process of a great transformation. This Writing Across the Curriculum course examines how evolving federal, state, and local policies; regulatory efforts toward electricity market deregulation;
EBF 410	Petroleum and Natural Gas Operations 3 Credits	The course is designed to instruct energy land management option students of the EBF major in the drilling of petroleum and natural gas wells and the challenges in that process. E B F 410 Petroleum and Natural Gas Opera
EBF 411	Petroleum and Natural Gas Geology for Land Professionals 3 Credits	This course provides energy land students with a knowledge base, as well as a set of notes and references, that they can draw on during a career in the petroleum industry. E B F 411 Petroleum and Natural Gas Geology for
EBF 472	Quantitative Analysis in Earth Sciences 3 Credits	Quantitative analysis of decision making in atmospheric/geophysical sciences: exploratory data analysis, quantification of uncertainty, parametric/non- parametric testing, forecasting, time series analysis.
EBF 473	Risk Management in Energy Industries 3 Credits	All major firms engage in financial risk management. In this course, we will learn quantitative techniques for describing of how firms can use financial instruments to manage their financial risk. In particular, we will focus on ris
EBF 483	Introduction to Electricity Markets 3 Credits	This course is designed to teach students about the structure of the electricity industry, the regulatory institutions that oversee the industry, and the new market institutions that have been put into place since electricity restru
EBF 484	Energy Economics 3 Credits	What is the role of energy in the economic system? What are the implications of the energy transformation on economic welfare? How can we efficiently meet new demand while also addressing the myriad social, environmer
EBF 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
EBF 499	Foreign Study 1-15 Credits/Maximum of 15	This course is designed to enable students to study in EBF study abroad programs.
ENNEC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENGR 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGR 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENGR 100	Introduction to Engineering 1 Credits	A seminar providing information about different engineering majors, coping with college life, and exploring educational and career goals. ENGR 100S ENGR 100S Introduction to Engineering (1) (FYS)Engineering 100 is a Firs
ENGR 110	Introduction to Engineering for Educators 3 Credits	This course focuses on physics content, engineering design principles, and elementary science education pedagogy.

ENGR 111	Introduction to Cross-Cultural Communication for Engineers 1 Credits	Introduction to theoretical approaches and practical applications of intercultural communications for engineering students.
ENGR 115N	Science, Humanity and Catastrophe: Scientific Discovery in Germany 3 Credits	The 20th century was a time of great scientific advancement - advancements that were used both for good and for evil (and for other purposes that lie somewhere in between). Germany and German-speaking scientists playe
ENGR 118	Impact of Culture on Engineering in China 3 Credits	Study of engineering in the context of cultural, historical, societal, political, and environmental considerations to understand the relationship between Chinese culture and engineering projects and policies; brief introduction to
ENGR 120N	Design Thinking and 3D Printing in Engineering and Healthcare 3 Credits	Design Thinking and 3D Printing in Engineering and Healthcare (ENGR 120N) is an introductory general education interdomain course. The course will introduce basic concepts of design processes, engineering, and medicine
ENGR 180	Introduction to Engineering Success and Professional Development First-year Semina 1 Credits	The Introduction to Engineering Success and Professional Development First-year Seminar is a one-credit course designed for first-year College of Engineering students participating in the Women in Engineering Program Or
ENGR 185	Short Term/Short Duration Internship 1 Credits/Maximum of 4	This short-term or short-duration internship course allows undergraduate engineering students to be enrolled for credit while working at a professional research, industry, or government agency internship relevant to their maj
ENGR 191	Millennium Scholars Summer Seminar 2 Credits	The Millennium Scholars Program, Summer Seminar (ENGR 191) will introduce first-year scholars to the expectations and standards of the Millennium Scholars Program. Throughout the summer, scholars will meet different fa
ENGR 192	Millennium Scholars First-Year Seminar 1 Credits	Millennium Scholars Program (MSP) First-Year Seminar is a one credit course designed for First-Year MSP students. This course is designed to assist new scholars in understanding and meeting the expectations of the Miller
ENGR 194	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ENGR 195	Engineering Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ENGR 195A	Engineering Internship 1 Credits/Maximum of 4	A supervised work experience in a professionally relevant position in research, industry or government. ENGR 195A Engineering Internship (1 per semester/maximum of 4) This course provides students the opportunity to ap
ENGR 195I	Engineering International Internship 0.5-1 Credits/Maximum of 4	A supervised work experience in a professionally relevant position in research, industry, government or service sector. ENGR 195I Engineering International Internship (1 per semester/maximum of 4) (IL) This course provides
ENGR 196	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENGR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENGR 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENGR 287	Career Preparation and Development for Engineers 1 Credits	This course will provide engineering students with awareness of University support structures and resources for career development and training in a variety of key career topics (resume writing, interviewing, networking, etc.)
ENGR 290	Millennium Scholars Professional Development Seminar 0.5 Credits/Maximum of 2.5	The Millennium Scholars Program prepares undergraduates to enter graduate school. As part of this preparation, each scholar participates in a professional development seminar. Students will be exposed to various professi
ENGR 291	The Role of the Engineering Peer Advising Leader 1 Credits/Maximum of 2	ENGR 291 is a 1-credit class designed to facilitate the preparation and professional development of students serving as College of Engineering Peer Advising Leaders (EPALs). EPALs support College of Engineering students
ENGR 292	Millennium Scholars Second-Year Seminar 1 Credits	Millennium Scholars Program (MSP) Second-Year Seminar is a one-credit course designed for Second-Year MSP students. This one credit course is designed to assist scholars in developing research and presentation skills,
ENGR 295	Engineering Co-Op Work Experience I 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in an engineering position in industry or government. (To be offered only for SA/UN grading.)
ENGR 295A	Engineering Cooperative Education 1 Credits/Maximum of 1	ENGR 295A Engineering Cooperative Education (1) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes in a professional laboratory, industry, or gov
ENGR 295I	Engineering International Cooperative Education 1 Credits/Maximum of 1	ENGR 295I Engineering International Cooperative Education (1) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes in a professional laboratory, ind
ENGR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENGR 297	Special Topics 0.5-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENGR 310	Entrepreneurial Leadership 3 Credits	This course develops leadership and entrepreneurial skills using collabora- tive, problem-based projects, with engineering and business students working in teams. ENGR 310
ENGR 320	Materials Properties Measurement I 3 Credits	Measurement and experimental procedures determination of the mechanical properties of engineered materials under deflection, compression, tension, fracture and fatigue conditions. ENGR 320 Materials Properties Measu
ENGR 320Y	Design for Global Society 3 Credits	ENGR 320Y examines engineering design from a societal perspective by asking the question, "What are the responsibilities and challenges of designers in considering the needs and welfare of current and future societies, an
ENGR 350	Computational Modeling Methods 3 Credits	Computational Modeling Methods is intended to introduce students to strategies in mathematical modeling of physical phenomena using modern computer simulation software. The course provides theoretical understanding
ENGR 390	Millennium Scholars Third-Year Seminar 1 Credits	Millennium Scholars Program (MSP) Third-Year Seminar is a one credit course designed for Third-Year students MSP students. This one credit course is designed to assist scholars in preparing for the graduate school applica
ENGR 394	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ENGR 395	Engineering Co-Op Work Experience II 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in an engineering position in industry or government. (To be offered only for SA/UN grading.)
ENGR 395A	Engineering Cooperative Education 1-2 Credits/Maximum of 2	ENGR 395A Engineering Cooperative Education (1-2) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes in a professional laboratory, industry, or g
ENGR 395I	Engineering International Cooperative Education 1-2 Credits/Maximum of 2	ENGR 395I Engineering International Cooperative Education (1-2) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes in a professional laboratory, ir
ENGR 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENGR 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENGR 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENGR 405	Project Management for Professionals 3 Credits	Covers the essential concepts and skills needed to make effective contributions on projects, on time and within budget. WF ED (ENGR) 405 Project Management for Professionals (3) Professionals in the workplace carry out
ENGR 407	Technology-Based Entrepreneurship 3 Credits	Technology innovation coupled with business planning and development.
ENGR 408	Leadership Principles 3 Credits	A project-based exploration of theories and principles of engineering leadership applicable to technical careers. This leadership course provides the basic theories, principles, skills, and relevant literature germane to leadersh
ENGR 409	Leadership in Organizations 3 Credits	Development of leadership skills essential for engineers to guide colleagues or an organization in a productive direction.
ENGR 410	Coaching Skills and Practice for Engineering Leaders 3 Credits	This course provides an applied approach to engineering leadership education. Students will develop a deeper understanding of leading engineering teams through applying coaching techniques designed to foster innovative
ENGR 411	Entrepreneurship Business Basics 3 Credits	Three critical entrepreneurship skills are covered for non-business majors: business finance, intellectual property, and marketing. Untitled Document
ENGR 415	Launching Innovation: Ideas to Opportunities 3 Credits	This course engages students in the processes involved in creating a technology-based product or service. This course will require students to manage, create, build and introduce a product to the market place within a tight
ENGR 421	Materials Properties Measurements II 4 Credits	Materials powder characterization, compaction and densification techniques, density measurements, micro structural evaluation, thermal and electrical properties of materials. ENGR 421 Materials Properties Measurement II
ENGR 422	Leadership of International Virtual Engineering Teams 3 Credits	ENGR 422 provides students with the opportunity to develop intercultural engineering collaboration skills. The course focuses on developing leadership competence in cross-cultural teaming through a virtual learning environ
ENGR 425	New Venture Creation 3 Credits	Via problem-based learning, students define new business ventures to meet current market needs, develop business models, and present to various stakeholders. The goal of New Venture Creation is to better prepare underg
ENGR 426	Invention Commercialization 3 Credits	Working with Penn State inventions selected by the Intellectual Property Office, student teams define an optimum commercialization path each technology. ENGR 426ENGR (MGMT/IST/ENTR) 426 Invention Commercializati
ENGR 450	Materials Design and Applications 3 Credits	Engineering design considerations for materials selection, organization of property trends of materials families, materials design strategies and property compatibility. ENGR 450 Materials Design and Applications (3) ENGR 4

ENGR 451	Social Entrepreneurship 3 Credits	Students develop business models and implementation strategies for social ventures in diverse world regions. ENGR 451 Social Entrepreneurship (3) Social Entrepreneurship is about pursuing direct action to address a socia
ENGR 455	Humanitarian Engineering and Social Entrepreneurship Reflection and Research I 3 Credits	This post-fieldwork course focuses on reflection on ethical issues and grassroots diplomacy challenges, and workshops on research dissemination. ENGR 455 Humanitarian Engineering and Social Entrepreneurship Reflectio
ENGR 460	Teaching Intern Seminar 0.5 Credits	This course prepares students for the responsibilities involved in serving as Teaching Interns in the College of Engineering. Topics addressed in the course include: Individual differences and implication for learning, preparing
ENGR 467Q	Robots and Their Role in Society 3 Credits	This course explores and critically analyzes the growing influence and impact of robots and automation on society. In particular, the course introduces students to the ever widening role that intelligent robots are playing and v
ENGR 475	Space Systems Engineering Seminar 1 Credits	Seminar overviewing the systems engineerng approach as applied to practical space systems. ENGR 475 Space Systems Engineering Seminar (1) As a requirement for the Space Systems Engineering (SPSYS) Certificate, th
ENGR 486	Business Opportunities in Engineering 2 Credits	Business principles, leadership and management strategies, accounting fundamentals, engineering and business ethics, creativity, and personal character as a formula for success. ENGR 486 Business Opportunities in Engi
ENGR 487	Business Opportunities in Engineering: The Business Plan 1 Credits	Essential elements, development, and presentation of the Business Plan from both an engineering and business point of view. ENGR 487 Business Opportunities in Engineering: The Business Plan (1) This course focuses on
ENGR 490W	Senior Design I 1 Credits	Analysis of environmental impacts on a design, designing products for the global environment and discussion on engineering ethics and professionalism. ENGR 490W Senior Design I (1) Senior design I provides students wit
ENGR 491W	Senior Design II 3 Credits	Capstone of research projects from conception to prototype through industry sponsored collaboration on common technical interests between faculty and student. ENGR 491W Senior Design II (3) Senior design I provides st
ENGR 493	Individual Leadership Experience 1 Credits	Approved individual project or internship for students to practice the leadership skills developed in the Engineering Leadership Development Minor.
ENGR 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ENGR 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ENGR 495	Engineering Co-Op Work Experience III 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in an engineering position in industry or government. (To be offered only for SA/Un grading.)
ENGR 495A	Engineering Cooperative Education 1-3 Credits/Maximum of 3	ENGR 495A Engineering Cooperative Education (1-3 per semester/maximum of 3) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes in a professio
ENGR 495I	Engineering International Cooperative Education 1-3 Credits/Maximum of 3	ENGR 495I Engineering International Cooperative Education (1-3 per semester/maximum of 3) This course provides students the opportunity to apply the fundamentals and academic concepts learned in their major classes i
ENGR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENGR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDSGN 11	Explorations in Design First-Year Seminar 1 Credits	Students explore topical issues in engineering design.
EDSGN 13	Ethics of Star Trek First-Year Seminar 1 Credits	The Star Trek television series is used as an introduction to ethics, with application to student life and engineering practice. EDSGN 013S Ethics of Star Trek First-Year Seminar (1) In this first-year seminar,The Ethics of Star T
EDSGN 97	Special Topic 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
EDSGN 100	Cornerstone Engineering Design 3 Credits	EDSGN 100 Cornerstone Engineering Design provides students with a foundation for engineering design through hands-on team projects that address specified design opportunities. Through this course, students will recogr
EDSGN 100H	Introduction to Engineering Design 3 Credits	Introduction to engineering design processes, methods, and decision making using team design projects; design communication methods including graphical, verbal, and written.
EDSGN 100S	Introduction to Engineering Design 3 Credits	Introduction to engineering design processes, methods, and decision making using team design projects; design communication methods including graphical, verbal, and written.
EDSGN 110	Spatial Analysis in Engineering Design 2 Credits	Spatial analysis techniques using advanced computer-aided drafting and design systems, with an emphasis on engineering concepts, analysis and design. ESDSGN 110 Spatial Analysis in Engineering Design (2) EDSGN 11
EDSGN 130	Architectural Graphics and CAD 3 Credits	Principles of architectural drawing; spatial relations with architectural applications; introduction to computer graphics (CAD) with project.
EDSGN 196	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses. A specific title may be used in each instance and will be entered on the student's t
EDSGN 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
EDSGN 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDSGN 210	Tolerancing and Spatial Models 2 Credits	Tolerances; form and size; unilateral, bilateral, and symmetric; form control, critical fits, tolerances specifications precedence; applications in spatial models. EDSGN 210 Tolerancing and Spatial Models (2) Professional paran
EDSGN 270	Summers by Design: An International Engineering Design Experience 3 Credits	The School of Engineering Design, Technology, and Professional Programs (SEDTAPP) offers this Penn State faculty-led study abroad program. Students will practice design with international collaborators in international env
EDSGN 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EDSGN 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EDSGN 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDSGN 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDSGN 367	Design Thinking and Making 3 Credits	Creating innovative products and services that matter for society and users, i.e. designing for impactful results, involves a complex process of thinking and making-both thinking and making strengthen each other-that uses a
EDSGN 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique or activity required.
EDSGN 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EDSGN 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDSGN 401	Engineering Systems Design 3 Credits	Design requirements for complex systems; trade-offs between market opportunities and technology; translation of priorities and needs into an operational concept. EDSGN 401 Engineering Systems Design (3) This course p
EDSGN 402	Materials and Manufacturing 4 Credits	Students will study principles and properties of engineering materials and manufacturing processes with a focus on their appropriate selection in design. Based on these principles and properties, as well as hands-on laborat
EDSGN 403	Product Realization 3 Credits	This course provides students with practical experience in the product design and development process. Computer aided design and a variety of related analytical tools are employed in team-oriented design activities, as we
EDSGN 410	Robotics Design and Applications 4 Credits	Introduction to robotics, with emphasis on the design of robotics systems through multidisciplinary integration of electrical, mechanical, and software components. EDSGN 410 Robotics Design and Applications (4) The obje
EDSGN 420	Advanced Robotics Design and Applications 3 Credits	The objective of this course is to apply advanced topics in robotics. It serves as the second course of a possible two-course sequence in robotics design and applications. This second course will enable students to explore a
EDSGN 452	Projects in Humanitarian Engineering 2 Credits	Multidisciplinary student teams engage in integrated design of real-world humanitarian ventures. EDSGN 452 Projects in Humanitarian Engineering (2)EDSGN 452 is intended to promote civic responsibility and enhance the s
EDSGN 453	Design for Developing Communities 1 Credits	A seminar series related to the context and integrated design of Humanitarian Engineering and Social Entrepreneurship ventures in developing communities. EDSGN 453 Design for Developing Communities (1) The Design fo
EDSGN 454	Humanitarian Engineering and Social Entrepreneurship Field Experience 0.5 Credits	A hands-on integrated learning research and entrepreneurial engagement experience for students working on various humanitarian projects. EDSGN 454 Humanitarian Engineering and Social Entrepreneurship Field Experien
EDSGN 460W	Multidisciplinary Capstone Design Project 3 Credits/Maximum of 6	Course provides multidisciplinary industry-sponsored and service-based senior design projects in conjunction with the Learning Factory.
EDSGN 462	Introduction to Design for Additive Manufacturing 3 Credits	Additive manufacturing (AM, colloquially 3D printing) is rapidly changing the face of modern manufacturing. This layer-by-layer manufacturing approach allows for parts to be created with significant levels of complexity and i
EDSGN 467	Prototyping to Launch 3 Credits	This course will focus on strengthening the fundamentals of human-centered design taught in the Design Thinking and Making course (EDSGN 367), which serves as a prerequisite to this course. The course will be a team- a
EDSGN 468	Engineering Design and Analysis with CAD 3 Credits/Maximum of 6	This course delivers methods and techniques necessary to become proficient in applying CAD as a design tool for engineering design and analysis. Students will gain a deep understanding in principles, best practices, and s
EDSGN 479	Human Centered Product Design and Innovation 3 Credits	Consumer product design for a global market, incorporating human factors principles and user desires in a multicultural perspective. EDSGN (I E) 479 Human Centered Product Design and Innovation (3)This course will focu
EDSGN 485	Engineering Design Portfolio 1 Credits	Positions in engineering design typically require a portfolio representing an applicant's best work. In preparation for this requirement, students in this course will develop the skills needed to design a portfolio that represents t
EDSGN 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EDSGN 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
EDSGN 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, pracrica, or internships. Written and oral critique of activity required.
EDSGN 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EDSGN 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

EDSGN 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EGT 102	Introduction to Computer Aided Drafting 1 Credits	A first course presenting an intensive study utilizing a computer assisted drafting and design system to obtain graphic solutions.
EGT 114	Spatial Analysis and Computer-Aided Drafting 2 Credits	Spatial relations of applications in engineering technology with more advanced functionality of computer-aided drafting and design systems. EG T 114 Spatial Analysis and Computer-Aided Drafting (2)The EG T 114, Spatial A
EGT 119	Introduction to CAD for Electrical and Computer Engineering 2 Credits	Introduction to computer-aided drafting (CAD) for Electrical and Computer Engineering Technology students with a focus on three dimensional assemblies. EG T 119 Introduction to CAD for Electrical and Computer Engineer
EGT 120	Introduction to Graphics and Solid Modeling 3 Credits	Development of visualization skills; introduction to parametric solids modeling techniques with constrained and unconstrained geometry, and assemblies.
EGT 121	Applied Solid Modeling 3 Credits	Creation of working drawings from solid models; dimensioning, GD&T, fastener, weld and finish symbols, layouts and bill of materials.
EGT 201	Advanced Computer Aided Drafting 2 Credits	Application of the principles of engineering graphics; preparation of working drawings; details, examples, and bill of material using CAD. EG T 201 Advanced Computer Aided Drafting (2)Professional parametric solid modelin
EGT 205	Transition From 2-D CAD to Solid Modeling 1 Credits	Supplemental course designed to introduce students (primarily transfer) to a solid modeling program. EG T 205 Transition From 2-D CAD to Solid Modeling (1) This is a one credit course in parametric solid modeling. Student
EMCH 210	Statics and Strength of Materials 5 Credits	Equilibrium of particles, rigid bodies, frames, trusses, beams, columns; stress and strain analysis of rods, beams, pressure vessels. E MCH 210 E MCH 210 Statics and Strength of Materials (5) This course is a combination c
EMCH 210H	Statics and Strength of Materials, Honors 5 Credits	Equilibrium of particles and rigid bodies, frames, trusses, beams, columns; stress and strain analysis of rods, beams, pressure vessels. E MCH 210H E MCH 210H Statics and Strength of Materials, Honors (5) This honors co
EMCH 211	Statics 3 Credits	Equilibrium of coplanar force systems; analysis of frames and trusses; noncoplanar force systems; friction; centroids and moments of inertia. E MCH 211 E MCH 211 Statics (3) Engineering Mechanics is the engineering scie
EMCH 212	Dynamics 3 Credits	Motion of a particle; relative motion; kinetics of translation, rotation, and plane motion; work-energy; impulse-momentum. E MCH 212 E MCH 212 Dynamics (3) Dynamics (E MCH 212) is the study of forces causing motion a
EMCH 212H	Dynamics 3 Credits	Motion of a particle; relative motion; kinetics of translation, rotation, and plane motion; work-energy; impulse-momentum. E MCH 212H E MCH 212H Dynamics (3) Dynamics (E MCH 212) is the study of forces causing motio
EMCH 213	Strength of Materials 3 Credits	Axial stress and strain; torsion; stresses in beams; elastic curves and deflection of beams; combined stress; columns. E MCH 213 E MCH 213 Strength of Materials (3) In this elementary course on the strength of materials th
EMCH 296	Independent Studies 1-18 Credits	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
EMCH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMCH 302H	Thermodynamics, Heat Conduction, and Principles of Modeling, Honors 4 Credits	EMCH 302H is a required course for engineering science students. This course presents the fundamental principles of classical thermostatics, thermodynamics, and heat transfer with relevant engineering applications. The st
EMCH 315	Mechanical Response of Engineering Materials 2 Credits	Mechanical response measures and design theories for engineering materials; elastic and plastic response as affected by stress, strain, time, temperature. E MCH 315 E MCH 315 Mechanical Response of Engineering Mater
EMCH 316	Experimental Determination of Mechanical Response of Materials 1 Credits	Experimental techniques for mechanical property measurement and structural testing. E MCH 316 E MCH 316 Experimental Determination of Mechanical Response of Materials (1) The objective of EM CH 316 is to introduce
EMCH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
EMCH 400	Advanced Strength of Materials and Design 3 Credits	Combined stresses; energy methods; special problems in bending and torsion; plates; thin-walled structures; buckling and stability; design projects.
EMCH 402	Applied and Experimental Stress Analysis 3 Credits	Experimental design of structural and machine components; photoelasticity, electrical resistance strain gauge techniques, Moire techniques, interferometry, holography.
EMCH 403	Strength Design in Materials and Structures 4 Credits	Determination, interpretation, significance, and application of mechanical properties such as plastic flow, fatigue strength, creep resistance, and dynamic properties.
EMCH 407	Computer Methods in Engineering Design 3 Credits	Computer methods in mechanical design: solid modeling, graphics, surface smoothing/interpolation and underlying numerics: simultaneous equations, quadrature, eigen problems, discrete models. E MCH 407 Computer M
EMCH 409	Advanced Mechanics 3 Credits	Continuation of E MCH 012; Euler's equations for the rotation of a rigid body, gyroscopic motion, impulsive motion, Lagrangian mechanics.
EMCH 416	Failure and Failure Analysis of Solids 3 Credits	Examination and analysis of the various modes of failure of solid materials.
EMCH 440	Nondestructive Evaluation of Flaws 3 Credits	Methods and limitations of nondestructive evaluation of mechanical flaws; optical, acoustical, electromagnetic, x-ray, radiography, thermography, and dye techniques.
EMCH 446	Mechanics of Viscoelastic Materials 3 Credits	Nature of viscoelastic materials, constitutive relations, thermorheological materials, viscoelastic stress analysis, rubber elasticity, viscoelastic liquids, experimental techniques for material characterization.
EMCH 461	Finite Elements in Engineering 3 Credits	Computer modeling and fundamental analysis of solid, fluid, and heat flow problems using existing computer codes. E MCH (M E) 461 Finite Elements in Engineering (3) This is an introductory course in the Finite Element Me
EMCH 470	Analysis and Design in Vibration Engineering 3 Credits	Application of Lagrange's equations to mechanical system modeling, multiple- degree-of-freedom systems, experimental and computer methods; some emphasis on design applications. In this course, students will learn bas
EMCH 471	Engineering Composite Materials 3 Credits	Properties, manufacture, forms of composites; micromechanics; orthotropic lamina properties; laminate analysis; theories; failure analysis; thermal, environmental effects.
EMCH 473	Composites Processing 3 Credits	An introduction to the principles of mechanics governing manufacturing, computer-aided design, and testing of composite materials and structures.
EMCH 480	Mechanism Design and Analysis 3 Credits	Design and analysis of mechanical linkages including kinematic synthesis and dynamic analysis. Linkages for a variety of applications are considered. M E 480 Mechanism Design and Analysis (3) The student who takes this
EMCH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
EMCH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ESC 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ESC 120	Design for Failure--First-Year Seminar 1 Credits	This seminar, through the utilization of commonly used examples, discusses the engineering principles which are exploited by such designs. ESC 120 Design for Failure (1) (FYS) Although an important facet of engineering de
ESC 121	Science/Engineering Fiction and the Engineering Sciences--First-Year Seminar 1 Credits	Examines the technology predictions of authors in view of the engineering sciences on which the underlying devices of their stories are based. E SC 121S Science/Engineering Fiction and the Engineering Sciences (1) (FYS) I
ESC 122	Weird, Wild, and Wonderful Materials and Devices--First-Year Seminar 1 Credits	First-year seminar that surveys the use of novel materials and material systems to create practical devices. E SC 122S Weird, Wild, and Wonderful Materials and Devices (1) (FYS) There are many materials whose response to
ESC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ESC 211	Material, Safety and Equipment Overview for Nanotechnology 3 Credits	Nanotechnology processing equipment and materials handling procedures with a focus on safety, environment, and health issues. E SC 211 Material, Safety, and Equipment Overview for Nanotechnology (3) This course ove
ESC 212	Basic Nanotechnology Processes 3 Credits	Step-by-step description of equipment and processes needed in top-down, bottom-up, and hybrid nanotechnology processing. E SC 212 Basic Nanotechnology Processes (3) This course is an overview of the broad spectru
ESC 213	Materials in Nanotechnology 3 Credits	The processing of materials in nanotechnology as well as the unique material properties available at the nano-scale. ESC 213 Materials in Nanotechnology (3) This course is an in-depth, hands on exposure to the producing a
ESC 214	Patterning for Nanotechnology 3 Credits	Pattern transfer techniques from photolightography to nanoimprinting and nanomolding. ESC 214 Patterning for Nanotechnology (3) This course is a hands-on treatment of all aspects of advanced pattern transfer and patter
ESC 215	Nanotechnology Applications 3 Credits	Applications of nanotechnology including those in medicine, biology, electronics, energy, and materials. E SC 215 Nanotechnology Applications (3) This course covers the applications of nano-scale devices and systems and
ESC 216	Characterization, Testing of Nanotechnology Structures and Materials 3 Credits	Measurements and techniques essential for controlling device fabrication. E SC 216 Characterization, Testing of Nanotechnology Structures and Materials (3) This course examines a variety of techniques and measurements
ESC 220N	Ethics, Society, and Science Fiction 3 Credits	This inter-domain (GH and GS) course will introduce students to the application of technology-ethics and bioethics, as well as the humanities (especially health and medical humanities) and the social sciences, through the le
ESC 261M	Computational Methods in Engineering 3 Credits	Computational methods for solving engineering problems using C++ and MATLAB. Reports on root finding, systems of algebraid equations. E SC 261M Computational Methods in Engineering (3) E SC 261M covers program
ESC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ESC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ESC 312	Engineering Applications of Wave, Particle, and Ensemble Concepts 3 Credits	The engineering applications of the wave and ensemble pictures of the physical world. E SC 312 Engineering Applications of Wave, Particle, and Ensemble Concepts (3) This course covers the engineering applications of wa
ESC 313	Introduction to Principles, Fabrication Methods, and Applications of Nanotechnol 3 Credits	Principles, fabrication methods and applications of nanoscale. E SC 313 Introduction to Principles, Fabrication Methods, and Applications of Nanotechnology (3) This course covets the unique opportunities provided by the r
ESC 337	Introduction to Quantum Information Science and Engineering 3 Credits	This course will introduce quantum mechanics from the perspective of quantum information science and engineering, focusing on two-level systems and the concepts of entanglement and decoherence. It will educate studer

ESC 386	Engineering Principles of Living Organisms 3 Credits	This course will explore how engineering principles apply to living organisms. E SC 386 Engineering Principles of Living Organisms (3) This course uses an engineering approach that applies basic physical and mathematical
ESC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ESC 400	Electromagnetic Fields 3 Credits	Irrotational and solenoidal fields, potentials, vector and scalar field and wave equations, harmonic and wave functions in various coordinates, radiation. E SC 400H Electromagnetic Fields (3) E SC 400H is a required senior-le
ESC 404	Analysis in Engineering Science 3 Credits	Unified application of coordinate transformations; Laplace's, heat, and wave equations to boundary value problems and problems of continua in engineering.
ESC 407	Computer Methods in Engineering Science, Honors 3 Credits	Numerical solution of differential equations including fundamentals: roots of single nonlinear and simultaneous (Matrix) equations, least squares fitting and staistical goodness, interpolation, finite differences, differentiation, in
ESC 409	Senior Research and Design Project Preparation, Honors 1 Credits	Preliminary identification and planning for the senior year research and design project. ESC 409 Senior Research and Design Project Preparation, Honors (1) is the first of a three-part series of courses that constitute the Engi
ESC 410H	Senior Research and Design Project I, Honors 3 Credits	Design and synthesis in the context of a specific design project undertaken during the senior year. ESC 410 Senior Design Project, Honors (3) is the second of a three-part series of courses that constitute the Engineering Sci
ESC 411	Senior Research and Design Project II, Honors 2 Credits	Design and synthesis in the context of a specific design project undertaken during the senior year. ESC 411 Senior Research and Design Project II, Honors (3) is the third of a three-part series of courses that constitute the En
ESC 412	Nanotechnology: Materials, Infrastructure, and Safety 3 Credits/Maximum of 999	Cleanroom based nano/micro fabrication and related environmental health and safety issues. The nanotechnology consumer products market currently has more than 1,000 nanomaterial-containing products varying from ma
ESC 414M	Elements of Material Engineering 3 Credits	Structure and imperfections in engineered materials; their influence on properties, behavior, and processing. Applications of metals, ceramics, polymers, and composites. E SC 414M Elements of Material Engineering (3) This
ESC 417	Electrical and Magnetic Properties 3 Credits	Electrical conductivity, dielectric properties, piezoelectric and ferroelectric phenomena; magnetic properties of ceramics. ESC 417 / MATSE 417 Electrical and Magnetic Properties (3) is designed to provide students with a fu
ESC 419	Electronic Properties and Applications of Materials 3 Credits	The course covers the electrical, optoelectronic, dielectric, and other electron-based properties of solids, semiconductors in particular, and their engineering/ device applications. E SC 419 Electronic Properties and Applicati
ESC 433	Engineering Science Research Laboratory Experience 1 Credits	Hands-on lab experience and exposure to campus-wide interdisciplinary experimental research. Experimental probability and statistics. Appplications across all Engineering Science disciplines. E SC 433H Engineering Scie
ESC 437	Physical implementation of qubits 3 Credits	Introduction to the physical implementation of quantum bits (qubits) based on state-of-the-art technologies. The course will consider issues in quantum information technology from an experimental point of view. The various
ESC 445	Semiconductor Optoelectronic Devices 3 Credits	The course will present the basic engineering science and technology involved in modern semiconductor optoelectronic devices. E SC 445 Semiconductor Optoelectronic Devices (3) This course deals with the optoelectroni
ESC 450	Synthesis and Processing of Electronic and Photonic Materials 3 Credits	The materials science of applying thin film coatings, etching, and bulk crystal growth; includes materials transport, accumulation, epitaxy, and defects.
ESC 455	Electrochemical Methods Engineering and Corrosion Science 3 Credits	The objective of the course is to give students hands-on experience in assessing environmental degradation of engineering materials. E SC 455 E SC 455 Electrochemical Methods in Corrosion Science and Engineering (3)T
ESC 456	Introduction to Neural Networks 3 Credits	Artificial Neural Networks as a solving tool for difficult problems for which conventional methods are not applicable. E E (E SC/EGEE) 456 Introduction to Neural Networks (3) This course is in response to students needs to le
ESC 460M	Multidisciplinary Design Project 3 Credits	This course will provide students with the opportunity to learn the design process in the context of an industry- or government-sponsored or service-based design project that demands delivering a working solution. The desi
ESC 460W	Multidisciplinary Design Project 3 Credits	This course will provide students with the opportunity to learn the design process in the context of an industry- or government-sponsored or service-based design project that demands delivering a working solution. The desi
ESC 475	Particulate Materials Processing 3 Credits	Fundamentals of processing particulate materials including production, characterization, handling, compaction, and sintering of metal, carbide, intermetallic, and composite powders.
ESC 481	Elements of Nano/Micro-electromechanical Systems Processing and Design 3 Credits	Interdisciplinary fundamentals of nano/microelectromechanical systems (NEMS/ MEMS), including design, fabrication and machining of miniature systems. Draws from mechanics, science and materials. E SC 481 Elements
ESC 482	Micro-Optoelectromechanical Systems (MOEMS) and Nanophotonics 3 Credits	Principles and applications of Micro-Optoelectromechanical and Nanophotonic devices and systems. E SC 482 Micro-Optoelectromechanical Systems (MOEMS) and Nanophotonics (3) E SC 482 provides the engineering st
ESC 483	Simulation and Design of Nanostructures 3 Credits	Introduction to computer simulation techniques and their applications at the physical/life sciences interface. E SC (MATSE) 483 Simulation and Design of Nanostructures (3) Students will learn the simulation techniques and t
ESC 484	Biologically Inspired Nanomaterials 3 Credits	Advances in biomolecular-based Science and technology at the physical/life sciences interface. E SC 484 Biologically Inspired Nanomaterials (3) Students will learn the concepts of molecular engineering and the advances i
ESC 494	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
ESC 494H	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
ESC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ESC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ET 200	Graphic Communications 3 Credits	The study of graphic communications relating to the design and construction industry.
ET 300	Mechanics I: Statics 3 Credits	Equilibrium of coplanar force systems; analysis of frames and trusses; shear and moment diagrams; friction; centroids and moment of inertia. ET 300 Mechanics I: Statics (3)This course is intended to provide the students wi
ET 321	Dynamics 3 Credits	Motion of a particle, relative motion; kinetics of translation; rotation and plane motion; conservation of energy and momentum. ET 321 Dynamics (3)The students will be introduced to the fundamental concepts of dynamics f
ET 322	Strength of Materials 3 Credits	Axial, torsional, bending, and combined stress analysis; deformation and deflection analysis of cables, shafts, and beams; column design and analysis. ET 322 Strength of Materials (3)Strength of materials deals with the rela
ET 323	Strength of Materials Laboratory 1 Credits	Measurement of mechanical properties of materials, structural testing. ET 323 Strength of Materials Laboratory (1)The objective of the strength of materials laboratory is to demonstrate the basic principles in the area of stren
ET 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written or oral critique of activity required.
ET 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENGL 2	The Great Traditions in English Literature 3 Credits	This course provides fundamental skills of textual analysis in the context of literary texts written in English, drama, and poetry (from the Middle Ages to the twentieth century) that address large questions of ethical and social
ENGL 4	Basic Writing Skills 3 Credits/Maximum of 6	Intensive practice in writing sentences and paragraphs and instruction in grammar, usage, and punctuation. Designed for students with deficient preparation. This course may not be used to satisfy the basic minimum require
ENGL 5	Writing Tutorial 1 Credits	Tutorial instruction in composition and rhetoric for students currently enrolled in ENGL 4 or ENGL 15. This course may not be used to satisfy the basic minimum requirements for graduation in any baccalaureate degree progr
ENGL 6	Creative Writing Common Time 1-8 Credits/Maximum of 8	Required one hour a week meeting time; readings, professional development, advising, community-building. ENGL 006 Creative Writing Common Time (1 per semester/maximum of 8) This course is to be required of all B.F.A
ENGL 10	Group Writing Tutorial 1 Credits/Maximum of 2	Course Description: ENGL 10 is a one-credit course that provides group tutorial instruction in writing for students currently enrolled in ENGL 15. It is not a replacement for composition classes or individual conferences with t
ENGL 15	Rhetoric and Composition 3 Credits	ENGL 15 is an intensive, rhetorically based experience in reading and writing that will prepare you both to understand the communications that surround you and to succeed in your own communication efforts. Thus, in this c
ENGL 15A	Rhetoric and Composition 3 Credits	English 15A is an intensive, rhetorically based experience in reading and writing that will prepare you both to ENGL 15A is a version of ENGL 15 with an added emphasis on culture and diversity. The term diversity can have m
ENGL 15E	Rhetoric and Composition Enhanced 3 Credits	ENGL 15E Enhanced prepares students to understand the functions of and produce a variety of texts for public and academic audiences. Class size is limited to 18 (as opposed to the regular 24) and provides individualized i
ENGL 15S	Rhetoric and Composition 3 Credits	English 15S is an intensive, rhetorically based experience in reading and writing that will prepare you both to understand the communications that surround you and to succeed in your own communication efforts. Thus, in thi
ENGL 30H	Honors Rhetoric and Composition 3 Credits	English 30H is an intensive, rhetorically based experience in reading and writing that will prepare you both to understand the communications that surround you and to succeed in your own communication efforts. Thus, in thi

ENGL 30T	Honors Freshman Composition First-Year Seminar 3 Credits	English 30T is an intensive, rhetorically based experience in reading and writing that will prepare you both to understand the communications that surround you and to succeed in your own communication efforts. Thus, in this
ENGL 50	Introduction to Creative Writing 3 Credits	If you enjoy writing to express yourself creatively - you will be at home in this course. You will also be at home here if you are an avid reader of fiction, poetry, and nonfiction, but have never tried your hand at writing it. In ENG
ENGL 50H	Introduction to Creative Writing 3 Credits	This course provides students with an introduction to, and extensive practice in, creative writing in the three genres of fiction, nonfiction, and poetry. The course includes instruction in principles of composition in each genre,
ENGL 83S	First-Year Seminar in English 3 Credits	Each section of the course will focus on a well-defined body of scholarship that is topical in the discipline, such as "Ethical Dilemmas in Literature," "Individual Freedom and Social Constraint in Literature," "Global Cultures, L
ENGL 88	Australian/New Zealand Cultural Perspectives 3 Credits	Australian and New Zealand cultural and social perspectives, with emphasis on the historical development of intellectual, aesthetic, and humanistic values. ENGL 88 Australian/New Zealand Cultural Perspectives (3) (GH)(BA)
ENGL 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 98	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 100	English Language Analysis 3 Credits	An examination of English sounds, words, and syntax using traditional, structural, and transformational grammar.
ENGL 101	Introduction to Literature 3 Credits	In ENGL 101 students will study a wide variety of forms of literature --- poetry, novel, short story, drama, graphic novels --- from different time periods and cultures to gain a better understanding of how literature explores hur
ENGL 103	The Great Traditions in American Literature 3 Credits	Fred Lewis Pattee's career at Penn State marks the beginning of a heyday for the study of American literature. By the 1930s, prominent American critic Granville Hicks hailed what he dubbed "the great tradition of American li
ENGL 104	The Bible as Literature 3 Credits	This course examines the literature of the Bible. Throughout this course, students will study the language, thought, images, and structures of the book that has arguably proved the central text of Western literature. Students v
ENGL 105	American Popular Culture and Folklife 3 Credits	AMST 105 / ENGL 105 offers a survey of popular culture and folklife in America's past and present. The course synthesizes a broad scope of materials from areas such as literature, movies, television, sports, amusement parl
ENGL 106	The Lynd Ward Graphic Novel Prize 1 Credits/Maximum of 3	This course is offered in tandem with The Lynd Ward Graphic Novel Prize, sponsored and administered by Penn State University (the first prize of its kind in the United States). The Lynd Ward Prize is awarded annually to the
ENGL 108N	Buddhism and US Society 3 Credits	This course focuses on Buddhism in the United States. We will overview the historical factors that led to the development of Buddhism in the U.S., the many traditions that currently exist in the U.S., the role of Buddhism in th
ENGL 110	Newswriting Practicum 2 Credits/Maximum of 6	Practice in writing and editing articles for the campus newspaper.
ENGL 111	The Possibilities of English 2 Credits	This course familiarizes students with the range of professional possibilities offered by the English major.
ENGL 112	Pennsylvania Literature 3 Credits	This course introduces the variety of literature that has been written and published by Pennsylvania authors from the colonial era through the present day. This course explores how the literature written in Pennsylvania relates

ENGL 114	Modern Pagan Traditions and Texts 3 Credits	This course introduces students to modern Paganism through the literary traditions that inform contemporary Pagan religions. From popular culture approaches to Norse myths to the ancient tales of Slavic folklore and Celtic
ENGL 115N	Arts of Love 3 Credits	This course will familiarize students with expressions of love in Western arts and literature. Students will analyze the artistic, philosophical and literary representations of courtship, friendship, homoeroticism, sexuality, marriag
ENGL 118	Music and Literature 3 Credits	This course explores depictions and inclusion of music in different literary forms over time, such as poetry, drama, fiction, and comics. Course topics can include the connections between poetry, song, and lyric; the presence
ENGL 120	Difference in Early Literature 3 Credits	This course explores representations of identity and community in early literature, from classical traditions through the early modern era. How did early literature engage issues of cultural contact, conflict, and/or exchange, su
ENGL 124	Legal Fictions: Law, Justice, Literature 3 Credits	This course explores intersections between literature and law, with attention to issues of social justice. How are social concepts and procedures of law and justice represented in different texts and media over time, both fictio
ENGL 125	On the Farm: Agriculture and Literature 3 Credits	This course explores representations of farming in literature, with a focus on American texts. How have literary and popular texts shaped cultural perceptions of agriculture in the United States? How have novels, poetry, dram
ENGL 126	Bad Literature 3 Credits	This course explores texts and traditions that were once considered non-literary but are now the object of critical inquiry and/or aesthetic appreciation. In other words, how does trash become literature? Course content inclu
ENGL 128N	The Holocaust in Film and Literature 3 Credits	This class studies how art, literature, film, and other media can help us to gain a perspective on one of the most horrific events in human history, the Holocaust: the genocidal murder of more than six million men, women, and
ENGL 129	Shakespeare 3 Credits	English 129 constitutes a broad introduction to Shakespeare's dramatic works from a variety of thematic, historical, formal, and/or generic vantages. Students practice close reading Shakespeare's language while also learnin
ENGL 129H	Shakespeare 3 Credits	English 129H constitutes a broad introduction to Shakespeare's dramatic works from a variety of thematic, historical, formal, and/or generic vantages. Students practice close reading Shakespeare's language while also learn
ENGL 130	Reading Popular Texts 3 Credits	READING POPULAR TEXTS explores a variety of popular texts across various media with the goal of enabling students to sharpen their ability to interpret the social, political, and cultural significance of such texts in the cont
ENGL 131	Weird Tales: Literature of Horror and the Supernatural 3 Credits	This course surveys the long tradition of literature that depicts the intrusion of supernatural forces into social order. The fantastic or horrific elements of these tales might be their best-known traits, but such literature can also
ENGL 132	Jewish American Literature 3 Credits	This course will provide an introduction to Jewish American literature through a historical survey of the tradition's key texts, figures, and themes. The course will focus on the defining aspects of the literature and on what the l
ENGL 133	Modern American Literature to World War II 3 Credits	ENGL 133 Modern American Literature to World War II (3) (GH)(BA)(US) This course meets the Bachelor of Arts degree requirements. ENGL 133 will constitute a wide ranging study of modernist American literature, and may i

ENGL 134	American Comedy 3 Credits	ENGL 134 serves as a survey of and introduction to strands of American comedy and satire from its eighteenth- and nineteenth-century roots through its many directions in the twentieth century. Students will read works fron
ENGL 135	Alternative Voices in American Literature 3 Credits	English 135 considers literature from diverse backgrounds (for example, Latinato, African-American, Asian-American, Native-American, Jewish, Muslim, working-class, lesbian, gay, or women's literature, or any other configur
ENGL 136	The Graphic Novel 3 Credits	This course considers the contemporary graphic novel (also known as graphic fiction, comics, or sequential narrative) as a literary medium that joins image and text. Course texts engage issues such as contemporary identity
ENGL 137H	Rhetoric and Civic Life I 3 Credits	Rhetoric and Civic Life (RCL) is a year-long honors course offering comprehensive training in oral, written, visual, and digital communication. It unites these various modes under the flexible art of rhetoric and uses rhetoric bo
ENGL 138T	Rhetoric and Civic Life II 3 Credits	This course builds rhetorical skills in oral, written, visual, and digital contexts and introduces deliberation and advocacy in civic and disciplinary spheres. CAS (ENGL) 138T Rhetoric and Civic Life II (3) (GWS)ENGL/CAS 138T,
ENGL 139	African American Literature 3 Credits	This course offers an introduction to African American literature from the early writings of slavery and freedom to the works of present-day African American authors. We will explore the major themes, literary traditions and na
ENGL 140	Contemporary Literature 3 Credits	Writers such as Baldwin, Beckett, Bellow, Ellison, Gordimer, Lessing, Lowell, Mailer, Naipaul, Pinter, Plath, Pynchon, Rushdie, and Walker. ENGL 140 Contemporary Literature (3) (GH)(BA) This course meets the Bachelor of A
ENGL 140H	Contemporary Literature - Honors 3 Credits	ENGL 140H offers a wide-ranging study of contemporary literature written in English across different forms and/or media. The class will approach this literature from a variety of thematic, historical, and/or generic vantages. A
ENGL 141N	African American Read-In Engaged Learning Experience 1-3 Credits/Maximum of 6	This course will allow students to study African American literature, culture, history, and arts in connection with an annual public event, the African American Read-In (AARI). The AARI, promoting literacy and appreciation of A
ENGL 142N	Science in Literature 3 Credits	The course explores two streams in parallel. Students will examine selected historic landmarks in science (e.g. evolution, atomic energy/weapons, climate change, biotechnology), with a focus on common misconceptions ab
ENGL 144	Everyday Rhetoric 3 Credits	This course provides a general introduction to the practices and traditions of rhetoric, as well as its presence and use in daily life. How do speakers and writers use language to move audiences in strategic ways? How have c
ENGL 145	Modern Irish Literature 3 Credits	Students will learn about Irish literature in the twentieth century and beyond; focus on the interplay of poltical, social, and cultural forces brought to bear on Irish literature, history, and politics from the early twentieth century t
ENGL 161N	The Pursuit of Happiness in American Life: Historical Literature and Modern Practice 3 Credits	When Thomas Jefferson elevated one pursuit to stand with life and liberty as inalienable rights, he eschewed others. The Declaration of Independence features the pursuit of happiness rather than that of amusements, consur

ENGL 162N	Communicating Care 3 Credits	Communicating Care ENGL 162N / SOC 162N / CAS 162N What do we talk about when we talk about health? Our states of well-being and illness are topics that, like the weather, drive our daily conversations, but we rarely t
ENGL 163N	Defining the Animal 3 Credits	Is it possible to comprehend the mind of another species? Can humans communicate with other animals? Do they have anything to say? In 1859, the publication of Darwin's The Origin of Species set the stage for the scientif
ENGL 165N	Work and Literature 3 Credits	If you get a job out of college, work eight hours a day, fifty weeks a year, and retire at age 65, at that point you have will spent roughly one third of your adult, waking life at work. And that is just paid work. Add in housework,
ENGL 170N	Introduction to American Folklore 3 Credits	This course introduces the verbal and nonverbal genres of folklore that have influenced literature, economics, politics and culture in North America. Approaching folklore as traditional patterns, practices, and performances, th
ENGL 179	Exploring the Literature of Food: Current Trends in American Food Writing and Enviro 3 Credits	"Exploring the Literature of Food: Current Trends in American Food Writing and Environmentalism" begins by demonstrating the deep history of environmentally-minded agriculture in American thought. In the sample course,
ENGL 180	Literature and the Natural World 3 Credits	This course is an introduction to literature that takes as its subject the natural world. Students will practice the methods of ecologically oriented literary analysis (eco-criticism) and they will learn to contextualize the major hist
ENGL 181A	Adventure Literature: Exploring the Chesapeake Bay 4.5 Credits	Examines the interconnection of culture and nature in the Chesapeake Bay region through the literature of the region. ENGL 181A Adventure Literature: Exploring the Chesapeake Bay (4.5) The course focuses on a specific p
ENGL 181B	Adventure Literature: Exploring Cape Cod 4.5 Credits	Examines the interconnection of culture and nature on Cape Cod through considerations of texts in various literary genres that have contributed to development of a distinctive regional identity and culture. ENGL 181B Adve
ENGL 181C	The Beach: Exploring the Literature of the Atlantic Shore 4.5 Credits	ENGL 181C -"The Beach: Exploring the Literature of the Atlantic Shore"-begins with some exploration of the dynamic forces at work on the barrier beach, with special attention to the ways in which great literature has taken v
ENGL 181D	Adventure Literature: Exploring the Literature of American Wilderness 3 Credits	The purpose of ENGL 181D -"Exploring the Literature of American Wilderness"-is to study the literature and ideas associated with American wilderness in an experiential context; that is, the heart of this course should be an e
ENGL 182	Literature and Empire 3 Credits	This course examines literature written in English from countried that were once part of the British Empire or some other European empire. The class will approach this literature from a variety of thematic, historical, and/r gen
ENGL 182A	Literature and Empire 3 Credits	Literature written in English from countries that were once part of the British Empire or some other European empire., e.g., India, Canada, South Africa, and others. ENGL 182A Literature and Empire (3) (GH;US;IL)(BA) This co

ENGL 182C	Literature and Empire 3 Credits	Literature written in English from countries that were once part of the British Empire or some other European empire., e.g., India, Canada, South Africa, and others. ENGL 182C Literature and Empire (3) (GH;IL)(BA) This cours
ENGL 183	Adventure Literature 3-4.5 Credits/Maximum of 12	Adventure Literature (ENGL 183) students not only read Thoreau, but like him, they travel to the mountains, the river, or the seashore; they hike, climb, and/or kayak; they interview residents with a stake in the area; and they s
ENGL 183N	The Cold War in Literature, Politics, and History 3 Credits	The course will focus on the history and politics of the Cold War and its depiction in literature and film, especially in British and American literature, but also in that of other countries. Students will read political science and his
ENGL 184	The Short Story 3 Credits	This course is designed to introduce students to the art of the short story and to acquaint them with some of its most talented writers. During the semester we will read short stories from various cultures and countries, rangin
ENGL 185	World Novel 3 Credits	Development of the modern novel in the last century (outside the British Isles and the United States); lectures, discussions, readings in translation. CMLIT 185 / ENGL 185 The Modern Novel in World Literature (3) (GH) (BA) Th
ENGL 190Q	Medievalism 3 Credits	In English 190Q / INART 203Q students will gain an understanding of medievalism, defined by Leslie J. Workman in 1987 as "the study of the Middle Ages, the application of medieval models to contemporary needs, and the
ENGL 191	Science Fiction 3 Credits	As a genre of literature, science fiction enables human beings to model themselves as a cosmic species, a life form that imagines and inhabits an entirely new scale of being. No longer confined to a tribe, nation or tradition, s
ENGL 192	The Literature of Fantasy 3 Credits	Perhaps more than any other genre of speculative fiction, fantasy is richly varied. This course examines the development of literary traditions in fantasy literature from their earliest origins in mythology and folklore, through the
ENGL 193N	The Craft of Comics 3 Credits	This course combines the literary analysis of comics and graphic novels with the creative practice of making comics. Students will learn through an integrated and ongoing process of interpreting select comics texts and also
ENGL 194	Women Writers 3 Credits	Short stories, novels, poetry, drama, and essays by English, American, and other English-speaking women writers. ENGL (WMNST) 194 Women Writers (3) (GH;US;IL)(BA) This course meets the Bachelor of Arts degree requir
ENGL 194H	Women Writers - Honors 3 Credits	English 194H will constitue a wide ranging study of works by American, British, and other English-speaking women writers, including novels, short stories, poems, plays, and prose. The class will approach this literature from
ENGL 194S	Women Writers 3 Credits	Short stories, novels, poetry, drama, and essays by English, American, and other English-speaking women writers. ENGL 194S Women Writers (3) (GH;US;IL;FYS)(BA) This course meets the Bachelor of Arts degree requirem

ENGL 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENGL 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 199	Foreign Study--English 3-6 Credits/Maximum of 6	Studies in English language and/or literature.
ENGL 200	Introduction to Critical Reading 3 Credits	Responses to a variety of literary texts written in English that evoke different approaches.
ENGL 200H	Introduction to Critical Reading 3 Credits	Responses to a variety of literary texts written in English that evoke different approaches.
ENGL 200W	Introduction to Critical Reading 3 Credits	Responses to a variety of literary texts written in English that evoke different approaches. ENGL 200W Introduction to Critical Reading (3)(BA) This course meets the Bachelor of Arts degree requirements. When we read a wo
ENGL 201	What is Literature 3 Credits	ENGL 201 What is Literature acquaints students with theory and practice relevant to studies of narrative, lyric poetry, and drama. This course meets the Bachelor of Arts degree requirements. English 201 will familiarize stude
ENGL 201H	What is Literature 3 Credits	ENGL 201H will familiarize students with theories and practices that are foundational for thinking about literature and for studying narrative fiction, poetry, and drama. The course will pose such questions as "what is narrative
ENGL 202A	Effective Writing: Writing in the Social Sciences 3 Credits	ENGL 202A introduces students to the types of writing that social scientists typically do in the workplace, including research proposals, proper citation practices, literature reviews, and research reports. In discussing writing a
ENGL 202B	Effective Writing: Writing in the Humanities 3 Credits	Instruction in writing persuasive arguments about significant issues in the humanities. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.) ENGL 202B Advanced Writing in the Humanities
ENGL 202C	Effective Writing: Technical Writing 3 Credits	Writing for students in scientific and technical disciplines. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.) ENGL 202C is an advanced writing course designed to help students in scie
ENGL 202D	Effective Writing: Business Writing 3 Credits	Writing reports and other common forms of business communication. (A student may take only one course for credit from ENGL 202A, 202B, 202C, and 202D.) ENGL 202D is an advanced writing course designed to help stu
ENGL 202H	Effective Writing: Honors 3 Credits	ENGL 202H teaches the distinctive features of professional and scholarly writing across disciplines, while inviting students to develop their professional identities. Unlike existing 202 versions 202H is designed for students in
ENGL 205	Children's Literature 3 Credits	As a child, what you read, or what is read to you, forms your first and foundational experience with literature. Moreover, what you read, and what is read to you, introduces you to the values that your culture holds dear. Despit
ENGL 206	Business and Literature 3 Credits	For many people, literature and business could not have less to do with each other. According to this view, literature escapes from reality to the imaginative, while nothing could be more focused on the real than business and
ENGL 208N	The Music of the Beatles and American Popular Culture 3 Credits	The Beatles are the most significant musical group in the history of popular music. Their songs are derived from diverse sources, such as rhythm 'n' blues, rock 'n' roll, country 'n' western, Motown, soul, folk music, folk rock,
ENGL 209	Journal or Magazine Practicum 1-6 Credits/Maximum of 8	A practicum in the editing and publishing of a magazine or journal.
ENGL 210	The Process of Writing 3 Credits	Examination of the relation between fiction and nonfiction; practice in principles common to all writing.
ENGL 211	Introduction to Writing Studies 3 Credits	This course introduces students to the most salient issues and theories in writing studies. Students explore contemporary theories and issues about writing in order to understand writing as a skill and a complex object of stu
ENGL 211W	Introduction to Writing Studies 3 Credits	This course introduces students to the most salient issues and theories in writing studies. Students explore contemporary theories and issues about writing in order to understand writing as a skill and a complex object of stu
ENGL 212	Introduction to Fiction Writing 3 Credits	English 212 is a course for students who want to try writing fiction for the first time and for more seasoned writers who are ready to develop greater courage for expression, complexity of craft, and skills for analysis and revisi
ENGL 213	Introduction to Poetry Writing 3 Credits	Written exercises in the components and techniques of poetry writing in conjunction with selected readings.
ENGL 214	Introduction to Creative Nonfiction Writing 3 Credits	Introduces lyric and narrative forms in memoir writing and the personal essay. ENGL 214 Introduction to Creative Nonfiction Writing (3) Creative nonfiction borrows techniques from fiction and poetry while adhering to but als
ENGL 215	Introduction to General Nonfiction Writing 3 Credits	Students will be directed in a variety of commercial and professional nonfiction forms, including but not limited to blog posts, feature articles, reported narratives, investigative reporting, literary journalism, criticism, and comm
ENGL 221	British Literature to 1798 3 Credits	Introduction to literary history and analysis; Beowulf and writers such as Chaucer, Shakespeare, Donne, Milton, Swift, Pope, and Fielding. ENGL 221 British Literature to 1798 (3) (GH)(BA) This course meets the Bachelor of A
ENGL 221W	British Literature to 1798 3 Credits	Focusing on major writers and their cultural contexts, ENGL 221W surveys British literature to 1798. A remarkable amount of important work was produced over this period. Students will read major texts like Beowulf, Romeo

ENGL 222	British Literature from 1798 3 Credits	Focusing on major writers and their cultural contexts, ENGL 222 surveys British literature from 1798 to the present. A remarkable amount of important literature was produced during this period. Students will read major texts
ENGL 222W	British Literature from 1798 3 Credits	Focusing on major writers and their cultural contexts, ENGL 222W surveys British literature from 1798 to the present. A remarkable amount of important literature was produced during this period. Students will read major tex
ENGL 223N	Shakespeare: Page, Stage, and Screen 3 Credits	This course will explore the relation between literary analysis and both film and theatrical performance by asking students to approach a limited set of plays from multiple perspectives, using texts, film, and theatrical performa
ENGL 224N	Authors and Artists 3 Credits	This course explores the many links between modern art and literature, including fiction about artists, illustrations of fiction and poetry, efforts to write in the styles associated with modern art, and practices of ekphrasis (the e
ENGL 225N	Sexuality and Modern Visual Culture 3 Credits	ENGL 225N / ARTH 225N / WMNST 225N Sexuality and Modern Visual Culture (3) (GA;GH) An examination of the visual expression of gender and sexual identities in English-speaking cultures since the late nineteenth centur
ENGL 226	Latina and Latino Border Theories 3 Credits	English 226 will constitute a wide-ranging examination of contemporary texts (1960-present) central to the construction of contemporary Latino/a culture. ENGL 226 Latina and Latino Border Theories (3) (GH;US;IL)(BA) This
ENGL 227	Introduction to Queer Theory 3 Credits	ENGL 227 Introduction to Sexuality Studies (3) (GH;US) This course focuses on the body of critical writings known as queer theory in order to analyze issues of sexuality and gender since 1969. The course interrogates sexua
ENGL 228	Introduction to Disability Studies in the Humanities 3 Credits	ENGL 228 provides a humanities-based interdisciplinary introduction to Disability Studies. This is one of two paired introductory courses developed as required courses for the Disability Studies minor. (The other is RHS 100.)
ENGL 229	Digital Studies 3 Credits	This course will introduce students to concepts, methods, and resources for digital studies, meaning both the study of culture using digital means and the study of digital culture and digital cultural objects in themselves. In so
ENGL 231	American Literature to 1865 3 Credits	This course offers students a broad introduction to key moments and authors in the literary traditions that shaped US literature up to 1865. While individual authors and works discussed in class will vary, the course addresse
ENGL 231Y	American Literature to 1865 3 Credits	This course offers students a broad introduction to key moments and authors in the literary traditions that shaped US literature up to 1865. While individual authors and works discussed in class will vary, the course addresse
ENGL 232	American Literature from 1865 3 Credits	Focusing on major writers and their cultural contexts, English 232 surveys American literature from 1865 to the present. A remarkable amount of important literature was produced during this period. Students will read major t

ENGL 232Y	American Literature from 1865 3 Credits	Focusing on major writers and their cultural contexts, ENGL 232Y surveys American literature from 1865 to the present. A remarkable amount of important literature was produced during this period. Students will read major t
ENGL 233N	Chemistry and Literature 3 Credits	This pedagogically innovative course will be team taught by an instructor from the English department and one from the Chemistry department. Both instructors will be present in the classroom throughout the semester, provi
ENGL 234	Sports, Ethics, and Literature 3 Credits	A passing glance at a newspaper sports page is enough to confirm how ethically fraught the sports world is. This course explores the ethical issues that arise in a culture of competition, and it uses a variety of literary texts to
ENGL 235	From Folk Shouts and Songs to Hip Hop Poetry 3 Credits	The origins, forms, and function of the oral folk tradition of African Americans. ENGL 235 / AFAM 235 From Folk Shouts and Songs to Hip Hop Poetry (3) (US)(BA) This course meets the Bachelor of Arts degree requirements.
ENGL 236N	Inequality: Economics, Philosophy, Literature 3 Credits	The Cubists were a group of painters including George Bracques, Pablo Picasso, working in Paris in the 1910s who, in addition to other painterly innovations, depicted objects not from one perspective but from multiple pers
ENGL 237N	Reading and Writing Documentary Poetry 3 Credits	You've probably heard of documentary photographs and documentary films, but you may not be familiar with documentary poetry. In this course, we will discuss how poets can use letters, diaries, transcripts, and other mate
ENGL 240	Exploring Literary Traditions 3 Credits/Maximum of 6	The examination of specific literary traditions in English-language texts and an inquiry into the question of tradition itself. (Section subtitles may appear in the Schedule of Courses.)
ENGL 245	Introduction to LGBTQ Studies 3 Credits	An introduction to the dominant themes in Lesbian, Gay, Bisexual, Transgender, and Queer Studies, with an emphasis on both literary & cultural studies. This course explores the history of modern, western ideas about sexua
ENGL 250	Peer Tutoring in Writing 3 Credits	Introduction to theories and skills of successful peer tutoring in writing. Provides tutoring experience in a writing center.
ENGL 260	Theory & Practice of Screenwriting 3 Credits	Students will consolidate and extend their critical understandings of the creative process within their own writing and in relation to the works of other screenwriters. Through the course, students will build on the ideas, concep
ENGL 261	Exploring Literary Forms 3 Credits/Maximum of 6	What is genre and why does it matter to the study of literature? This course takes up the question of genre - what it is and why it matters - using a particular literary form (the early novel, epic poetry, episodic drama, memoir o
ENGL 262	Reading Fiction 3 Credits	ENGL 262 examines the critical, theoretical, and practical issues that readers face when reading fiction. Students will examine critical concepts ranging from fundamental analytical concerns such as plot structure, characteri
ENGL 263	Reading Poetry 3 Credits	English 263 will take up the questions, problems, and delights involved in reading poetry in British, American, and other English-language traditions. Examining the fundamental tools of reading poetry (meter, rhyme, image, d
ENGL 265	Reading Nonfiction 3 Credits	Reading Nonfiction will provide students with a historical context and the reading skills necessary for this "fourth genre" of creative writing, with an emphasis on memoirs and the essays that have defined the genre across dif

ENGL 268	Reading Drama 3 Credits	Reading Drama is a course that will cover elements of drama including plot, character, dialogue, staging, and dramatic forms in primarily British, American, and other English-language traditions. Students will explore different
ENGL 281	Television Script Writing 3 Credits	An introduction to the writing of scripts for television production.
ENGL 294	Research Topics 1-12 Credits/Maximum of 12	Individual or small group instruction.
ENGL 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENGL 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENGL 312	Globality and Literature 3 Credits	This course examines contemporary fiction that reflects on globality and globalization, most often from contexts where planetary crisis registers as linguistic or narrative disturbance: war, empire, economic underdevelopment
ENGL 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ENGL 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 399	Foreign Study--English 3-6 Credits/Maximum of 6	Advanced studies in English language and/or literature.
ENGL 400	Authors, Texts, Contexts 3 Credits/Maximum of 6	Styles, cultural milieus, critical perspectives toward particular English- language authors and/or movements they represent, and the idea of authorship. (Section subtitles may appear in the Schedule of Courses.)
ENGL 401	Studies in Genre 3 Credits/Maximum of 6	English-language texts exemplifying particular genres, with attention to critical theories, historical development, rhetorical strategies, and social, cultural, and aesthetic values. (Section subtitles may appear in the Schedule o
ENGL 401W	Creative Writing Theory 3 Credits	Theories of art and creativity which inform the making of literary works.
ENGL 402	Literature and Society 3 Credits/Maximum of 6	Texts confronting social, political, technological, or other issues in the English-speaking world. (Section subtitles may appear in the Schedule of Courses.) ENGL 402 Literature and Society (3)(BA) This course meets the Bach
ENGL 403	Literature and Culture 3 Credits/Maximum of 6	Historical, theoretical, and practical issues within cultural studies in relation to English-speaking texts. (Section subtitles may appear in the Schedule of Courses.) ENGL 403 Literature and Cultural Studies (3)(BA) This course
ENGL 404	Mapping Identity, Difference, and Place 3 Credits/Maximum of 6	Ethnicity, gender, class, race with reference to theoretical inquiry into identity, difference, and place in English-language literatures. (Section subtitles may appear in the Schedule of Courses.)
ENGL 405	Taking Shakespeare From Page to Stage 3 Credits	Students experience a Shakespeare play as a text to be explicated and as a script to be performed.
ENGL 406M	Honors Course in English: General Topic in Recent Literature 3-12 Credits/Maximum of 12	This advanced Honors Seminar in literature, rhetoric, and cultural studies allows students to explore and research a topic related to recent literary culture. Topics will vary depending on the course instructor but may include th
ENGL 407	History of the English Language 3 Credits	This course provides an accessible overview of the English language from its earliest beginnings as an insular language to its current place as a global language. One central issue will be the ways in which the external history
ENGL 408M	Honors Seminar in English: General Topic in Post-1800 Literature 3-12 Credits/Maximum of 12	This advanced Honors Seminar in literature and literary and cultural history allows students to explore and research a topic related to post-18th century literary culture. Topics will vary depending on the course instructor but r
ENGL 409	Composition Theory and Practice for Teachers 3 Credits	An overview of the theory and practice of writing for teachers, with emphasis on the writing process. ENGL 409 Composition Theory and Practice for Teachers (3)(BA) This course meets the Bachelor of Arts degree requireme
ENGL 410	Advanced TV Script Writing 3 Credits	Students enrolled in Advanced Television Writing will have successfully completed ENGL 281, Introduction to TV Writing. In the advanced course, they will continue the project (a television pilot script) begun in the earlier cour
ENGL 411M	Honors Seminar in English: Creative Writing 3-12 Credits/Maximum of 12	Advanced Seminars in Creative Writing focus on a particular genre and/or topic. Genres include poetry, fiction, graphic novel, memoir, creative non-fiction, essay, or drama. Topics vary. Students work as apprentice writers, re
ENGL 412	Advanced Fiction Writing 3 Credits/Maximum of 12	Advanced study of the techniques of fiction writing; regular practice in writing the short story; group discussion of student work.
ENGL 413	Advanced Poetry Writing 3 Credits/Maximum of 12	Advanced study of the techniques of poetic composition; regular practice in writing poetry; group discussion of student work. ENGL 413 Advanced Poetry Writing (3 per semester/maximum of 6)(BA) This course meets the Ba
ENGL 414	Biographical Writing 3 Credits	Writing of biography and autobiography, character sketches, "profiles," and literary portraits; analysis and interpretations of source materials.
ENGL 415	Advanced Nonfiction Writing 3 Credits/Maximum of 12	Advanced study of the principles of nonfiction; substantial practice in writing and submitting magazine articles for publication.
ENGL 416	Science Writing 3 Credits/Maximum of 6	Prepares scientists and writers to gather, interpret, and present scientific information to the layman with clarity and accuracy.
ENGL 417	The Editorial Process 3 Credits	The process of editing from typescript through final proof.
ENGL 418	Advanced Technical Writing and Editing 3 Credits/Maximum of 6	Preparing and editing professional papers for subject specialists and for others interested in careers as writers or editors.
ENGL 419	Advanced Business Writing 3 Credits	Preparing and editing reports and presentations common to business, industry, and government.
ENGL 420	Writing for the Web 3 Credits	Analysis and composition of informative, persuasive, and "creative" Web texts, based on rhetorical principles; no prior Web writing experience required. ENGL 420 Writing for the Web (3)(BA) This course meets the Bachelor o
ENGL 421	Advanced Expository Writing 3 Credits	Develops skill in writing expository essays, with particular attention to style. Intended for liberal arts majors.
ENGL 422	Fiction Workshop 3 Credits/Maximum of 6	Practice and criticism in the composition of the short story and the novel.
ENGL 424	Creative Writing and the Natural World 3 Credits	Creative writing workshop focused on the environment and related issues. ENGL (ENVST) 424 Creative Writing and the Natural World (3) American literature includes a long and rich tradition of writing that focuses on the natu
ENGL 426	Chicana and Chicano Cultural Production: Literature, Film, Music 3 Credits/Maximum of 3	An in-depth study of Chicana/Chicano literature, film, and music from the inception of the Chicano Movement (1965-1975) to the present. ENGL 426 Chicana and Chicano Cultural Production: Literature, Film, and Music (3) (
ENGL 427	Topics in Jewish American Literature 3 Credits/Maximum of 9	An in-depth examination of important themes, writers, and/or historical developments in Jewish Literature of the United States. ENGL (J ST) 427 Topics in Jewish American Literature (3) This course will provide sustained exa
ENGL 428	Asian American Literatures 3 Credits/Maximum of 6	This course explores contemporary Asian American literary production by reading a wide variety of texts focused on the possibilities and limits of space and place. Our goal in this class is two-fold: to orient ourselves in relati
ENGL 429	New Media and Literature 3 Credits	New media literary genres; critical discussion of creative works in digital media.
ENGL 430	The American Renaissance 3 Credits	Studies in the works and the interrelationships of writers such as Emerson, Hawthorne, Poe, Thoreau, Whitman, Melville, and Dickinson. The course will cover Transcendentalism and the authors who contributed to this move
ENGL 431	Black American Writers 3 Credits/Maximum of 6	A particular genre or historical period in the development of Black American literature. ENGL 431 / AMST 475 Black American Writers (3) (US) A study of a particular genre or historical period in the development of Black Ame
ENGL 432	The American Novel to 1900 3 Credits	Such writers as Hawthorne, Melville, Stowe, Mark Twain, James, Crane, Chopin, and others.
ENGL 433	The American Novel: 1900-1945 3 Credits	Such writers as Wharton, Dreiser, Cather, Fitzgerald, Faulkner, Hemingway, Hurston, Wright, and others.
ENGL 434	Topics in American Literature 3 Credits/Maximum of 99	Focused study of a particular genre, theme, or problem in American literature. (May be repeated for credit.) ENGL 434 / AMST 472 Topics in American Literature (3) This course will allow faculty and students to focus a semes
ENGL 435	The American Short Story 3 Credits	Development of the short story as a recognized art form, with emphasis on major writers.
ENGL 436	American Fiction Since 1945 3 Credits	Study of novels and short fiction written in the United States since World War II, with attention to different movements, traditions, and genres.
ENGL 437	The Poet in America 3 Credits	American poets such as Bradstreet, Taylor, Poe, Emerson, Whitman, Dickinson, Frost, Eliot, Stevens, Hughes, Brooks, Moore, Williams, Plath, Rich, Lowell.
ENGL 438	American Drama 3 Credits	Development from the colonial period to playwrights such as O'Neill, Wilder, Hellman, Miller, Williams, Albee, Shepard, Norman, Wilson, and others.
ENGL 439	American Nonfiction Prose 3 Credits	Major prose writers such as Franklin, Emerson, Thoreau, Fuller, Henry Adams, Mailer, Baldwin, McCarthy, Dillard, Didion, Angelou, and others.
ENGL 440	Studies in Shakespeare 3 Credits	Focused study of a single genre, topic, or critical approach to selected plays by Shakespeare and contemporaries.
ENGL 441	Chaucer 3 Credits	This course surveys the literary career of Geoffrey Chaucer, perhaps the most celebrated English-language poet of the medieval ear. The course primarily examines Chaucer's own writings, with consideration of the several in
ENGL 442	Medieval English Literature 3 Credits	Study of major works and genres of medieval English literature, exclusive of Chaucer.
ENGL 443	The English Renaissance 3 Credits	Study of different early modern texts and traditions, with attention to poetry, drama, fiction, and nonfiction.
ENGL 444	Shakespeare 3 Credits	Selected tragedies, comedies, and histories.

ENGL 445	Shakespeare's Contemporaries 3 Credits	Selected plays by Shakespeare's major predecessors and contemporaries: Kyd, Marlowe, Jonson, Webster, Marston, Middleton, and others.
ENGL 446	Milton 3 Credits	Analysis of principal poems and their background.
ENGL 447	The Restoration and the Eighteenth Century 3 Credits	Study of different English writers and traditions from the neoclassical age (1660-1776), with attention to poetry, fiction, romance, and drama.
ENGL 448	The English Novel to Jane Austen 3 Credits	Study of different writers and traditions in the early English novel.
ENGL 449M	Honors Seminar in English: Pre-1800s literature 3-12 Credits/Maximum of 12	This course offers honors students the opportunity to explore in depth a period of early English literature before 1800. Topics will vary from year to year, but may include Beowulf and Anglo-Saxon literature and culture, late m
ENGL 450	The Romantics 3 Credits	Writers of the British Romantic period (roughly 1790 to 1832) often made sweeping claims for the power of poetry and imagination. Percy Bysshe Shelley contended that "poets are the unacknowledged legislators of the worl
ENGL 451	Literary Modernism in English 3 Credits	Survey of literary modernism in English and English translation in a variety of genres, including poetry, fiction, and drama.
ENGL 452	The Victorians 3 Credits	The Victorian era is a rich, diverse period full of contradictory ideologies and cultural changes grouped together by the long reign of Queen Victoria. Students will study this fascinating period of cultural history through texts in
ENGL 453	Victorian Novel 3 Credits	Study of texts and traditions in the nineteenth-century English novel.
ENGL 454	Modern British and Irish Drama 3 Credits	From Wilde and Shaw to the present season. ENGL 454 Modern British and Irish Drama (3)(BA) This course meets the Bachelor of Arts degree requirements. ENGL 454 will introduce students to some of the most exciting pla
ENGL 455	Topics in British Literature 3 Credits/Maximum of 99	Focused study of a particular genre, theme, or problem in British literature. (May be repeated for credit.) ENGL 455 Topics in British Literature (3)(BA) This course meets the Bachelor of Arts degree requirements. This course
ENGL 456	British Fiction, 1900-1945 3 Credits	Study of writers and traditions in British short fiction and novels, 1900-1945.
ENGL 457	British Fiction Since 1945 3 Credits	Readings in British fiction since World War II.
ENGL 458	Twentieth-Century Poetry 3 Credits	Study of poetry written in English during the twentieth and twenty-first centuries, with attention to different writers, forms, and traditions.
ENGL 459	Writing Palestine-Israel 3 Credits	Study of literary writing of and about the Israel-Palestine conflict. This course examines the Israel-Palestine conflict through an analysis of literature written by participants, victims, bystanders, and observers. We will read liter
ENGL 460	Business and Literature 3 Credits/Maximum of 3	An investigation into how writers and the cultures in which they write have represented business and those engaged in it. For many people, literature and business could not have less to do with each other. According to this
ENGL 462	Reading Black, Reading Feminist 3 Credits	This course examines intersectional identity and its representations of gender, class, race, sexuality, and cultural difference in texts by black American women. The course also identifies analyzes major issues concerning the
ENGL 463	African American Autobiography 3 Credits	The African American literary quest for identity and its adaptation to Euro-American culture and autobiographies. ENGL 463 African American Autobiography (3) (US)(BA) This course meets the Bachelor of Arts degree require
ENGL 464M	Honors Seminar in English: Multicultural 3-12 Credits/Maximum of 12	This advanced Honors Seminar in multicultural literature, rhetoric, and cultural studies allows students to explore and research a topic related to race, gender, ethnicity, sexuality, queer theory, post-colonialism, disability, minc
ENGL 466	African American Novel I 3 Credits	This course examines the origins of the African American novel and follows the genre's evolution into the early twentieth century, outlining the relationships among the texts that form the body of African American narrative as
ENGL 467	African American Novel II 3 Credits	This course examines the African American novel, its forms, and its traditions starting during the Harlem Renaissance. It follows the genre's evolution into the twenty-first century, outlining the relationships among the texts th
ENGL 468	African American Poetry 3 Credits	Meta duEwa Jones argues, "We cannot afford to continue to treat black poetry and poetics as loose change among the more highly valued paper currency of fiction and nonfiction prose. . . . The myriad aesthetic forms and c
ENGL 469	Slavery and the Literary Imagination 3 Credits	The impact of slavery on the petitions, poetry, slave narratives, autobiographies, and novels of African Americans. ENGL 469 / AFAM 469 Slavery and the Literary Imagination (3) (US)(BA) This course meets the Bachelor of Ar
ENGL 470	Rhetorical Theory and Practice 3 Credits	Application of certain rhetorical principles to problems in composition. Writing exercise. Designed as preparation for the teaching of composition.
ENGL 471	Rhetorical Traditions 3 Credits/Maximum of 6	This course introduces students to significant texts and movements in the history of rhetoric from antiquity to the present. The purpose of the course is to familiarize students with the role that rhetoric has played in shaping t
ENGL 472	Current Theories of Writing and Reading 3 Credits/Maximum of 6	Investigates models of textual production and reception current within English studies. (Section subtitles may appear in the Schedule of Courses.)
ENGL 473	Rhetorical Approaches to Discourse 3 Credits/Maximum of 6	Practices the criticism of written texts from selected rhetorical perspectives. (Section subtitles may appear in the Schedule of Courses.)
ENGL 474	Issues in Rhetoric and Composition 3 Credits/Maximum of 6	Examines selected topics in the field of rhetoric and composition. (Section subtitles may appear in the Schedule of Courses.)
ENGL 475	Comics Studies 3 Credits	This course introduces students to the academic field of Comics Studies, that is, the scholarship of comics and graphic novels. The course surveys different methodologies and focuses of comics scholarship, with historical
ENGL 476	Arab American Literature 3 Credits	Study of Arab American literary writing. This course surveys the history of Arab American literature, from the tradition's beginnings at the turn of the twentieth century to the present, emphasizing close reading and aesthetic a
ENGL 478	Grant Writing 3 Credits	Grants can do many things. Let's say you are a student who has always dreamed of combining help for food-insecure people with support for the mentally ill homeless. You've written papers about it for classes; you've read
ENGL 480	Communication Design for Writers 3 Credits	This course explores visual design, non-verbal communication, and software packages used in professional settings to most effectively present written communications. ENGL 480 Communication Design for Writers (3) ENG
ENGL 481	Literary Theory: Historical Perspectives 3 Credits	Selected topics in the history of literary criticism and theory within the English-language tradition.
ENGL 482	Contemporary Literary Theory and Practice 3 Credits/Maximum of 6	Contemporary literary theories and their implication for critical practice as applied to British, American, and other English-language literary works.
ENGL 482W	Contemporary Literary and Cultural Theory 3 Credits	Contemporary literary and cultural theories and their implication for critical practice as applies to a variety of texts, e.g. literary, linguistic, visual, multimedia, and/or popular.
ENGL 483	Problems in Critical Theory and Practice 3 Credits	Intensive study of one or more recent theoretical approaches as applied to British, American, and other English-language literary works.
ENGL 486	The World Novel in English 3 Credits	Studies in the novel, written in English, by writers outside of the United States and Great Britain. ENGL 486 The World Novel in English (3) (IL) This course examines the nature of the novel as written in English by writers outsi
ENGL 487W	Senior Seminar 3 Credits	Issues, themes, periods, critical theories, etc., that invite students to use prior English studies, limited to seniors majoring in English.
ENGL 489	British Women Writers 3 Credits	A study of selected British women writers. ENGL (WMNST) 489 British Women Writers (3) This course provides the opportunity to study writing by British Women from a historical perspective and to explore the views these v
ENGL 490	Women Writers and Their Worlds 3 Credits	American and British literature written from the perspective of women. ENGL (WMNST) 490 Women Writers and Their Worlds (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements. ENGL/WMNST 490 c
ENGL 491	The Capstone Course in Professional Writing 3 Credits	This culminating course for Professional Writing majors concentrates on reflective analyses, design, and presentation of documents in the development of professional portfolios.
ENGL 492	American Women Writers 3 Credits	A study of selected American women writers. ENGL 492 / AMST 476 / WMNST 491 American Women Writers (3) A study of selected women writers, this course provides the opportunity to study writing by American women
ENGL 494	Senior Thesis in English 1-6 Credits/Maximum of 6	Senior English (ENGL) majors write a thesis arranged with in-charge person and submit it to a faculty committee for appraisal. Departmental approval required (for more special information please refer to the notes section in
ENGL 494H	Senior Thesis in English 1-6 Credits/Maximum of 6	Honors Senior English (ENGL) majors write a thesis arranged with in-charge person and submit it to a faculty committee for appraisal. Departmental approval required (for more special information please refer to the notes se
ENGL 495	Internship 3-12 Credits/Maximum of 12	Supervised practicum in fields appropriate to the English major.
ENGL 496	Independent Studies 1-18 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENGL 499	Foreign Study--English 3-6 Credits/Maximum of 6	Studies abroad in English language and/or literature.
ESL 4	ESL Composition for American Academic Communication I 3 Credits	For undergraduate students who are beginning-intermediate level non-native speakers of English to improve their grammar and writing skills in preparation for future American academic writing assignments. This course may
ESL 5	Writing Tutorial 1 Credits/Maximum of 1	This course supplements ESL 015, providing focused instruction for non-native English speaking students in English composition and academic writing. This course may not be used to satisfy the basic minimum requirement
ESL 15	ESL Composition for American Academic Communication II 3 Credits	ESL 15 ESL/Composition for American Academic Communication II (3) This course is for undergraduate students who are intermediate-advanced level non-native speakers of English. Students will become familiar with the v
ESL 114G	American Oral English for Academic Purposes 3 Credits	Instruction in ESL for graduate students, focusing on the use of oral language skills in an academic setting. ESL 114G American Oral English for Academic Purposes (3) This course is designed for graduate students who are
ESL 115G	American Oral English for ITAs I 3-9 Credits/Maximum of 9	Initial course in American Oral English for preparation of international teaching assistants. ESL 115G American Oral English for ITAs I (3 per semester/maximum of 9) This course is designed for non-native speakers of English
ESL 116G	ESL Composition for Academic Disciplines 3 Credits	For international students at the graduate level to engage in scholarly activity in their academic disciplines. ESL 116G ESL Composition for Academic Disciplines (3) This course is designed for international students at the gr
ESL 117G	American Oral English for ITAs II 3-9 Credits/Maximum of 9	Intermediate course in American Oral English for preparation of international teaching assistants. ESL 117G American Oral English for ITAs II (3 per semester/maximum of 9) This course is designed for intermediate level non-
ESL 118G	American Oral English for ITAs III 3 Credits	Advanced course in American Oral English for preparation of international teaching assistants. ESL 118G American Oral English for ITAs III (3) This course is designed to provide English language instructional support for adv
ESL 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

ETI 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ETI 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ETI 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ETI 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ETI 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ETI 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ETI 300W	Development and Documentation of Enterprise Web 3 Credits	Organizations utilizing enterprise stack platforms leverage several core components in order to be successful in implementations across system boundaries. Students will draw upon their prior experience in databases, netwo
ETI 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ETI 435	Enterprise Analytics 3 Credits	Analytics and big data, enabling analytics through information technology, ROI in analytics, leveraging proprietary data for analytical advantage, analytics on the web, analytics of online engagement, applying analytics at proc
ETI 461	Database Management and Administration 3 Credits	A study of advanced topics in database management systems that are fundamental to effective administration of modern enterprise information systems. The objective of the course is to enable a student to comprehend a ra
ETI 463	Distributed Database Management Systems 3 Credits	Today, most enterprise databases are no longer a centralized data store that is accessed by thousands of users from multiple locations which may be globally situated. These databases are typically web-based and distribute
ETI 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ETI 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ETI 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ETI 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENT 202N	Insect Connections: Insects, Globalization and Sustainability 3 Credits	An introduction to the diversity of insects and the ways in which they interact with humans and impact our world. ENT 202N is a Science course that will use an interdisciplinary approach to look at the biology and the interpla
ENT 216N	Plagues Through the Ages 3 Credits	This interdomain, general education course examines the major plagues of human history from both a scientific and societal lens. The course will be co-taught by instructors with biology and political science backgrounds wh
ENT 222N	Honey Bees and Humans 3 Credits	Among more than 1,000,000 known insect species, honey bees are truly unique. No other insect has been harnessed so effectively to benefit humankind: honey bees provide critical pollination services for agricultural crops,
ENT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENT 313	Introduction to Entomology 2 Credits/Maximum of 2	This course is an introduction to entomology addressing issues of insect diversity, morphology and physiology, and identification of the most common groups of adult and immature insects. This course will highlight the bene
ENT 314	Management of Insect Pests of Ornamentals 1 Credits	Diagnosis and management of insect pests on shrubs and trees in the landscape or production nursery.
ENT 316	Field Crops Entomology 1 Credits	Laboratory-based approach to identification and management of insect pests of agronomic crops.
ENT 317	Turfgrass Insect Pest Management 3 Credits	This course will introduce students to a thorough understanding of insects and their relatives, IPM, and control strategies. The course will provide the students the opportunity to review EPA registered turfgrass insecticides a
ENT 320	Insects and Natural History Collections 1 Credits	This course focuses on the roles of natural history collections, with an emphasis on arthropods. Through hands-on activities and discussions, students explore insect preservation and collection management techniques, bioc
ENT 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENT 402W	Biology of Animal Parasites 3 Credits/Maximum of 3	An introduction to animal parasitology. Emphasis placed on host/parasite interactions, parasites of zoonotic importance, control programs and taxonomy. VB SC 402W Biology of Animal Parasites (3) This course provides stu
ENT 410	Insect Structure and Function 3 Credits	Integrated physiology and anatomy of insects; emphasis on unique adaptations, genetic regulation of development, insects as model systems, environmental physiology.
ENT 419W	Pesticide Science 3 Credits	This interdisciplinary course explores the basic science of pesticides from biology, chemistry, and ecology perspectives. Students will learn the basic science of pesticides and their impacts on the environment. The first class
ENT 420	Introduction to Population Dynamics 3 Credits	Principles of population regulation, demographic analysis, modeling of dynamic processes are discussed; laboratories involve the exploration of population growth models.
ENT 424	Sensory Biology of Insects 3 Credits	This course provides students an understanding of insect sensory systems contributing to behaviors performed for survival and reproduction.
ENT 432	Insect Biodiversity and Evolution 4 Credits	In this course students learn insect taxonomy, evolutionary history, collection and preservation techniques, morphology, fossils, and natural history. ENT 432 Insect Biodiversity and Evolution (4) In this course students learn i
ENT 440	Plant-Insect Interactions 3 Credits	This course is an introduction to and survey of the major areas of plant-insect interactions. This course explores how plant traits facilitate or deter insect behavior and development, chemical and structural counter-adaption a
ENT 450	Medical Entomology 3 Credits/Maximum of 3	Transmission of human and animal pathogens by insects, mites and ticks, including emergent pathogens, envenomization, and forensic entomology. This course presents principles of transmission of human and animal path
ENT 457	Principles of Integrated Pest Management 3 Credits	Integrated study of pest complexes and their management, emphasizing ecological principles drawing on examples from a range of agricultural, forestry and urban systems. This course is designed for sixth, seventh, and eig
ENT 484	Insect Behavior 3 Credits	Insects are one of the most ecologically successful and diverse taxonomic groups on the planet, and their success is attributed to the amazing range and complexity of the behaviors they exhibit. This course provides an intro
ENT 495	Entomology Internship 1-18 Credits/Maximum of 18	Supervised non-group instruction, including field experiences, practica, or internships. Written and oral critique of activity required.
ENT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENT 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENT 499	Foreign Studies 1-12 Credits/Maximum of 12	Foreign travel, specific locations and activities will vary by instructor
ENTR 300	Principles of Entrepreneurship 3 Credits	Overview of the fundamental principles and processes of entrepreneurship including idea generation and opportunity analysis.
ENTR 320	Entrepreneurship and New Venture Creation 3 Credits	Explores the process for starting and growing a new venture including the development of a business plan.
ENTR 400	Financing Entrepreneurial Ventures 3 Credits	Overview of alternative forms of financing including seed capital, valuing a company, going public, partnerships, and acquisitions.
ENTR 410	Entrepreneurial Marketing 3 Credits	Principles of Internet marketing and strategies for marketing new ventures on the Web.
ENTR 430	Entrepreneurship and New Product Development 3 Credits	Examines the process of designing, testing and launching new products, and developing a strategy for commercialization of the technology.
ENTR 440	Entrepreneurship and Franchising 3 Credits	Overview of the entire franchising process with a focus on licensing and distributorship, trade marks, strategy, and growing the enterprise.

ENTR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENTR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENVE 411	Water Supply and Pollution Control 3 Credits	Water supply, wastewater characteristics, design of unit processes for water and wastewater treatment, sludge processing, and related new technologies. ENVE 411 Water Supply and Pollution Control (3) Providing safe drin
ENVE 415	Hydrology 3 Credits	Watershed response to rainfall events; hydrologic systems; ground water flow. ENVE 415 Hydrology (3) Hydrology is the study of water's movement over the earth and in the atmosphere, with a particular focus in the class on
ENVE 417	Hydraulic Design 3 Credits	Design of water and waste water conveyance systems and storage facilities. ENVE 417 Hydraulic Design (3) The delivery of cleandrinking water and the collection of wastewater are two of the fundamentalactivities of municip
ENVE 430	Sustainable Engineering 3 Credits	A course on engineering which uses ecological principles to minimize waste and maximally use input materials. ENVE 430
ENVE 470	Air Quality 3 Credits	Overview of air quality issues with regard to the sources, measurements, effects, transport and control of potential air contaminants. ENVE 470 Air Quality (3) The protection of clean air is vital for the health of people. Air polli
ENVE 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ENVE 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ERM 150S	ERM First Year Engagement 1 Credits	This First Year Engagement course is for first-year students intending to major in Environmental Resource Management at University Park campus. First year DUS students may also enroll. Students will explore environmenta
ERM 151	Careers and Issues in Environmental Resource Management 1 Credits	ERM 151 introduces students to the environmental sciences and resource management field early in their academic experience. The course is the first prescribed ERM course for students in the Environmental Resource Man
ERM 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ERM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ERM 210	Environmental Factors and Their Effect on Your Food Supply 3 Credits	An exploration of how urban environmental problems influence our ability to obtain food and natural resources. E R M 210E R M 210 Environmental Factors and Their Effects on Your Food Supply (3) (GN)(BA) This course me
ERM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ERM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ERM 300	Basic Principles and Calculations in Environmental Analysis 3 Credits	This course will demonstrate the dependence of environmental science on biology, chemistry and physics, and provide a contextual link between principles learned in basic science courses and the advanced environmental c
ERM 309	Measurement & Monitoring of Hydrologic Systems 3 Credits	This course is an introduction to measurement and monitoring equipment/techniques commonly used in analyses and design of hydrologic systems and will provide students the opportunity to learn and apply basic measure
ERM 327	Soil and Water Resource Management 3 Credits	This course equips students with the ability to understand land measurements, mapping, soils, hydrology, channel flow, erosion control techniques with emphasis on RUSLE2, subsurface drainage techniques, and water impo
ERM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ERM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ERM 402	Foundations of Sustainable Business 3 Credits	This course will provide students with an understanding of how environmental and sustainability issues are impacting business strategies and ultimately profits. We will also examine the external stakeholders, such as environ
ERM 411	Legal Aspects of Resource Management 3 Credits	Legal systems and lawmaking processes; property rights in land, water, and wildlife resources; jurisdictional problems in planning resource use. E R M 411 Legal Aspects of Resource Management (3) This course provides a
ERM 412	Resource Systems Analysis 3 Credits	ERM 412 is a course in problem solving, as it relates to environmental and resource related issues. The course covers a variety of problems within an environmental context, including mass balance, steady-state, dynamic, ar
ERM 413W	Case Studies in Ecosystem Management 3 Credits	Application of biological, physical, and social science principles to ecosystem management problems; introduction to environmental impact analysis and review.
ERM 429	The Chesapeake Bay Watershed: Issues and Careers in Complex Environmental Prob 3 Credits	This course will offer an in-depth exploration of issues related to the health of the Chesapeake Bay and its watershed, with an emphasis on pollutants impacting water quality, and the long history of efforts to improve Bay wa
ERM 430	Air Pollution Impacts to Terrestrial Ecosystems 3 Credits	This course introduces student to air pollutant sources, transport, meteorology, and temporal and spatial trends of pollution dispersion and deposition. An overview is presented of the direct and indirect effects of air pollutant
ERM 431	Environmental Toxicology 3 Credits	Effects of pollutants on animal health at the chemical, physical, and cellular level.
ERM 433	Transformation of Pollutants in Soils 3 Credits	The course provides the chemical and biological basis for understanding, predicting and controlling the fate of pollutants added to the soil. The material falls distinctly into two major sections: Section I discusses the fundame
ERM 435	Limnology 3 Credits	Biogeochemistry and natural history of freshwater ecosystems. W F S (E R M) 435 Limnology (3)This course will define and describe major principles (physical, chemical, biological, and ecological) that govern the structure a
ERM 440	Chemistry of the Environment: Soil, Water, and Air 3 Credits	This course is designed for junior and senior undergraduates with some previous chemistry background. The course will advance students¿ understanding of chemical concepts and link them to applications in environmental
ERM 447	Stream Restoration 3 Credits	Stream restoration will focus on understanding stream impairment by evaluating the stream channel, its floodplain, and the watershed supplying runoff to the stream. A wide variety of stream assessment tools will be introduc
ERM 448	Rural Road Ecology and Maintenance 3 Credits	Roads are ubiquitous throughout the landscape and this course is intended for students who anticipate working in natural resource management fields. This course provides students with the fundamental understanding of th
ERM 449	Sustainable Water Management: Economics and Policy 3 Credits	Water resource management is of fundamental importance to human societies and natural ecosystems. Yet, despite millennia of human experience in managing water resources, water shortages and water quality degradatio
ERM 450	Wetland Science and Sustainability 3 Credits	Wetlands are unique ecosystems, differing in many ways from both terrestrial and aquatic environments. The study of wetlands is interdisciplinary, requiring background knowledge in science, management and policy discipli
ERM 489	Supervised Experience in College Teaching 1-3 Credits/Maximum of 3	The Supervised Experience in College Teaching course provides select undergraduate students with formal, supervised teaching experience in an Environmental Resource Management (ERM) course. Faculty recruit students
ERM 494	Undergraduate Research in Environmental Science 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small group basis.
ERM 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of an ERM honors thesis.
ERM 495	Internship 1-12 Credits/Maximum of 12	A supervised practicum in the environmental field. To be offered only for SA/UN grading.
ERM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ERM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ERM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered with a component in foreign countries, by individual or group instruction.
ENVSC 200	Introduction to Environmental Science 3 Credits	This team-taught course is designed to be the entrance/introduction to major course in Environmental Science. The course consists of seven modules. The first module is an introduction to research methods, and is designed
ENVSC 294	Research in Environmental Science 1-3 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
ENVSC 296	Independent Studies in Environmental Science 1-3 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
ENVSC 297	Special Topics in Environmental Science 1-3 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENVSC 400W	Case Studies in Environmental Analysis and Problem-Solving 3 Credits	A writing-intensive environmental science course comprising review and analysis of field, lab, policy, and management aspects; investigative methods; and projects.
ENVSC 494	Research in Environmental Science 1-3 Credits/Maximum of 9	ENVSC 494 is an experiential course that allows undergraduates to design, complete and present a research project in environmental science.
ENVSC 495	Internship in Environmental Science 1-3 Credits/Maximum of 9	ENVSC 495 is an off-campus internship experience with a local, regional, or national environmental organization, government agency, or private-sector business.
ENVSC 496	Independent Studies in Environmental Science 1-3 Credits/Maximum of 9	Creative projects or specialized coursework, supervised on an individual basis, that falls outside the scope of formal ENVSC coursework.
ENVST 100N	Visions of Nature 3 Credits	An interdisciplinary introduction to environmental studies, including perspectives from environmental ethics, economics, public policy, art, literature, history, geology, biology, and ecology. This course may be team-taught and
ENVST 200	Research Methods in Environmental Studies 3 Credits	Focus on interdisciplinary research methodologies from biology, social sciences, and humanities for the study of environmental issues and problems. ENVST 200
ENVST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or group-basis.

ENVST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENVST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ENVST 299	Foreign Studies in Environmental Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENVST 395	Internship 1-6 Credits/Maximum of 6	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ENVST 400W	Senior Seminar in Environmental Studies 3 Credits	Writing-intensive study of a specified topic in environmental studies integrating approaches and research from a variety of disciplines. ENVST 400W
ENVST 424	Creative Writing and the Natural World 3 Credits	Creative writing workshop focused on the environment and related issues. ENGL (ENVST) 424 Creative Writing and the Natural World (3) American literature includes a long and rich tradition of writing that focuses on the natu
ENVST 425	Environmental Communication 3 Credits	ENVST 425W Environmental Communication (3). Environmental communication is an increasingly important specialty within the discipline of communication, and a critical topic for students interested in participating in enviro
ENVST 428	Environmental Economics and Policy 3 Credits	Our free market system has brought us tremendous increases in productivity and innovation over the last century. However, at times the production or consumption of goods or services generates side effects that can lower t
ENVST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or group basis.
ENVST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
ENVST 497	Special Topics in Environmental Studies 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ENVST 499	Foreign Studies in Environmental Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ENVSE 400	Safety Engineering 3 Credits/Maximum of 3	An introduction to the application of engineering principles for the promotion of safety for workers, consumers, and the public.
ENVSE 404W	Surface and Interfacial Phenomena in Environmental Systems 4 Credits	This course explores the principles underlying surface and interfacial phenomena, with emphasis on application to mineral processing and environmental systems. The various aspects covered span from gas/solid interfaces,
ENVSE 406	Sampling and Monitoring of the Geo-Environment 3 Credits	Issues of sampling, analysis, monitoring and control techniques for effective environmental management in the extractive industries.
ENVSE 408	Contaminant Hydrology 3 Credits	Mobility of contaminants in aquifers; multiphase flow, transport, retardation and attenuation, vapor mobility, aquifer characterization, mathematical models and aquifer remediation.
ENVSE 412	Environmental Systems Engineering Laboratory 1 Credits	A laboratory study of the principles involved in the characterization and remediation of process wastes with an emphasis on physical separations.
ENVSE 427	Pollution Control in the Process Industries 3 Credits	The major objective of this course is to teach the design principles for different unit operations commonly employed in environmental pollution control in the mineral, energy, and chemical process industries. The course is req
ENVSE 440	Industrial Ventilation for Contaminant Control 3 Credits	Ventilation system design and analysis for control of industrial contaminants; measurements, dilution and local exhaust ventilation strategies; laboratory demonstrations included.
ENVSE 450	Environmental Health and Safety 3 Credits	Overview of toxicology, epidemiology, exposure assessment, industrial hygiene, environmental laws, and engineering approaches to protecting workers and the environment.
ENVSE 457	Industrial Hygiene Measurements 3 Credits	Industrial hygiene is the discipline devoted to the anticipation, recognition, evaluation, and control of hazards in the workplace. This course provides an overview of the most common industrial hygiene measurement techniqu
ENVSE 470	Engineering Risk Analysis 3 Credits/Maximum of 3	Quantitative methods of systems analysis, probabilistic risk and reliability analysis, as well cost-benefit, and value of information analysis.
ENVSE 480	Environmental Systems Engineering Process Design 3 Credits	ENVSE 480 provides a culminating design experience for students in the Environmental Systems Engineering major. Students develop the skills and techniques for managing and executing engineering design projects with a
ENVSE 494	Senior Thesis 1-6 Credits/Maximum of 6	Independent research and/or design projects under the supervision of the Environmental Systems Engineering program.
ENVSE 495	Environmental Health and Safety Engineering Internship 2 Credits	Students work with an advisor to prepare technical memos and a final report summarizing the experiential education gained through employment in inudstry.
ENVSE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design,that are supervised on an individual basis and that fall outside the scope of formal courses.
ENVSE 497	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
FIN 100	Introduction to Finance 3 Credits	The nature, scope, and interdependence of the institutional and individual participants in the financial system. May not be used to satisfy Penn State Business baccalaureate degree requirements. Not available to students w
FIN 108	Personal Finance 3 Credits	Personal management of budgets, bank accounts, loans, credit buying, insurance, real estate and security buying. May not be used to satisfy Smeal College baccalaureate degree requirements.
FIN 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FIN 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FIN 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FIN 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FIN 301	Corporation Finance 3 Credits	This course provides a basic understanding and framework of how firms acquire, allocate, and control their financial resources. It covers the acquisition and management of corporate capital; analysis of operations, forecastir
FIN 301H	Corporation Finance (Honors) 3 Credits	FIN 301H honors course provides insight into real world issues that are needed to effectively run a business. Students will utilize the fundamental concepts learned in finance (integrated with accounting, marketing, managem
FIN 302	Introductory Financial Modeling 3 Credits	This course applies spreadsheets to build financial models and solve numerically intensive problems in finance. FIN 302 Introductory Financial Modeling (3)This course is designed to provide students with an understanding a
FIN 305	Financial Management of the Business Enterprise 3 Credits	Development of advanced practices of financial management and their application to decision making in business firm. FIN 305 Financial Management of the Business Enterprise (3) The objective of this course is to give stu
FIN 305M	Financial Management of the Business Enterprise (Honors) 3 Credits	Development of advanced practices of financial management and their application to decision making in a business firm. FIN 305M Financial Management of the Business Enterprise (Honors) (3) The objective of this course
FIN 305W	Financial Management of the Business Enterprise 3 Credits	The objective of this course is to give students an understanding, and working knowledge of the major decisions faced by corporate financial managers. In general, the course will emphasize three major areas: investment an
FIN 306W	Investment Valuation 3 Credits	Approaches to investment strategy, investment decisions; valuation of corporate securities, including the impact of dividend policy and capital structure.
FIN 330	Personal Financial Planning 3 Credits	Developing financial plans including cash budgets, credit purchases, investments, and insurance.
FIN 362	Intrieri Family Student Managed Fund - Associate Analyst Practicum 1-4 Credits/Maximum of 4	In this course, students will provide research support for the Officers and Lead Analyst for the Intrieri Family Student Managed Fund, an actual investment fund that currently holds a stock portfolio of approximately $250,000.
FIN 395A	Nittany Lion Fund - Associate Fund Manager Practicum 3 Credits/Maximum of 6	FIN 395A Nittany Lion Fund - Associate Fund Manager Practicum (3 per semester/maximum of 6) While the Lead Fund Manager is accountable for all work done by a given sector, an Associate Manager often does much of t
FIN 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
FIN 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FIN 405	Advanced Financial Management 3 Credits	An examination of the development and application of decision rules for major long-term financial and investment problems of the firm.
FIN 406	Security Analysis and Portfolio Management 3 Credits	Advanced valuation theory; fundamentals of security analysis; portfolio construction and management.
FIN 406H	Security Analysis and Portfolio Management (Honors) 3 Credits	Advanced valuation theory; fundamentals of security analysis; portfolio construction and management. FIN 406H - Security Analysis and Portfolio Management (Honors)(3) Finance 406 is about how to invest money in stocks
FIN 407	Multinational Financial Management 3 Credits	Analysis of the international aspects of managerial finance; emphasis on the impact of the international financial environment on firm operations.
FIN 408	Financial Markets and Institutions 3 Credits	Functional analysis of major credit institutions; sources and uses of funds; impact of government regulation.
FIN 408H	Financial Markets and Institutions (Honors) 3 Credits	Introduction to bonds, equities, derivatives, and financial institutions including insurance, pension funds and mutual funds. FIN 408H - Financial Markets and Institutions (Honors) (3) Finance 408H is about financial institution
FIN 409	Real Estate Finance and Investment 3 Credits	The sources and uses of credit; instruments and methods of financing; the theory and practice or real estate investment analysis. FIN (R EST) 409 Real Estate Finance and Investment (3) Real Estate financial markets are rapi
FIN 410	Derivative Markets 3 Credits	Functions, techniques, and impact of speculation conducted through forward markets; the nature of speculative transactions, pricing, and methods of trading.
FIN 413	Risk Management of Financial Institutions 3 Credits	Measuring and managing risk faced by financial institutions. FIN 413 Risk Management of Financial Institutions (3) This course focuses on measurement and management of risk faced by managers of modern financial instit
FIN 414	Financial Trading and Applications 3 Credits	The focus of this course is the application of financial theory and technology to the practice of financial trading. The first half of the class examines tools for constructing and evaluating trading strategies. After a short review
FIN 415	Advanced Financial Modeling 3 Credits	Develop financial models using spreadsheets, VBA programming, and trading room applications such as Bloomberg and @Risk. FIN 415 Advanced Financial Modeling (3) Students will develop financial models using spreads
FIN 416	Intermediate Financial Modeling 3 Credits	The topics covered in this course build on the foundations of corporate finance presented in FIN 301, Corporate Finance. Specifically, the course focuses primarily on the development of spreadsheet applications and the use
FIN 418	Energy Finance 3 Credits	This course offers an exploration into energy finance through an examination of the oil, gas, and coal commodity markets, as well as global electricity markets and renewable generation. The course addresses fundamental co

FIN 420	Investment and Portfolio Analysis 3 Credits	Investment and risk, types of security investments, sources of investment information, the broker, the stock market, portfolio management.
FIN 426	Analysis of Interest Rates and Debt Markets 3 Credits	The course starts off with a review of the time value of money concepts and the pricing of standard cash flows such as annuities, perpetuities. Next, an overview of the Treasury markets is provided with emphasis on both the
FIN 427	Derivative Securities 3 Credits	Introduction to futures contracts and options, leading to a working understanding of their importance in financial management applications.
FIN 428	Fixed Income Securities 3 Credits	This course develops a framework for the analysis of fixed income securities, one of the largest segments of global financial markets. Valuation and risk-return characteristics of these instruments are examined, in addition to
FIN 430	Estate Planning 3 Credits	Liquidity planning, titling and transfer of property, trusts, federal unified tax system, gifting, incapacity planning, legal documents. FIN 430 Estate Planning (3) This course addresses estate planning issues for individuals as pa
FIN 450	Retirement Planning 3 Credits	Retirement planning: qualified and non-qualified plans, characteristics, provisions, regulations administration, application approach with case studies. FIN 450 Retirement Planning (3) This course presents retirement planning
FIN 451	Intermediate Financial Management 3 Credits	Case studies are used to develop skills in solving a variety of financial management problems. FIN 451 Intermediate Financial Management (3)This course is designed to reinforce and extend the principles from its prerequisit
FIN 455	Quantitative Analysis for Business 3 Credits	This course provides students with working knowledge of some widely used quantitative methods, such as Monte Carlo simulations, t-tests, linear regressions, nonlinear regressions, regressions with dummy variables, and re
FIN 456	International Capital Markets 3 Credits	This course develops understanding of international capital markets by striking a balance between institutional details, theoretical foundation and practical application. FIN 456 International Capital Markets (3) (IL) This course
FIN 460	Real Estate Financial Analysis 3 Credits	Debt and equity financing, capital structure, "creative financing," risk analysis, corporate asset management. FIN (R M) 460 Real Estate Financial Analysis (3) The objective of this course is to provide in-depth coverage of rea
FIN 461	Portfolio Management and Analysis 3 Credits	Investement policy and process, modern portfolio theory, portfolio construction, and portfolio performance measurement and evaluation. FIN 461 Portfolio Management and Analysis (3) The course provides a mix between th
FIN 462	Intrieri Family Student Managed Fund - Fund Officer / Lead Analyst Practicum 1-3 Credits/Maximum of 4	Students provide leadership as an Officer or Lead Analyst for the Intrieri Family Student Managed Fund. Students conduct economic, industry, and company financial analysis to recommend investment portfolio decisions. In
FIN 470	Real Estate and Capital Markets 3 Credits	Analysis of publicly-traded real estate of both the equity, (REITs) and debt (MBSs) sides. The course also provides international perspectives. FIN 470 / RM 470 Real Estate and Capital Markets (3) The objectives of this cours
FIN 471	International Finance 3 Credits	Financial decision making in an international environment. Emphasis on topics relevant to small businesses and entrepreneurs. FIN 471 International Finance (3)This course provides an understanding of the basic terminolog
FIN 475	Financial Decision Making 3 Credits	Problems and cases in financial decision making for non-financial corporations and financial institutions. FIN 475 Financial Decision Making (3)The objective of this course is to tie together the various topics in finance such a
FIN 476	Financial Ethics 1 Credits	In this one credit course, we explore ethical standards for financial analysts and portfolio managers as a part of the Standards of Practice Handbook from the CFA Institute. In this one credit course, we explore ethical standar
FIN 477	Behavioral Finance 3 Credits	This course will introduce students to behavioral finance, which is the intersection of psychology, economics, and finance. They will learn how individuals and firms make financial decisions and how these decisions might de
FIN 478	Advanced Financial Analysis 3 Credits	This seminar course covers the investment tools necessary to prepare junior professionals in the investment management industry. Students are exposed to economic foundations that underpin financial statement analysis, c
FIN 480	Alternative Investments 3 Credits	This seminar course covers topics necessary for junior professionals to understand how alternative investments operate on a stand-alone and portfolio basis. Students are exposed to economic foundations and statistical pro
FIN 491	Financial Planning Capstone 3 Credits	Critical thinking and decision-making about personal financial planning topics in the context of the financial planning process. FIN 491 Financial Planning Capstone (3) This capstone course is designed to reinforce and exten
FIN 494	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FIN 494H	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FIN 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
FIN 495A	Lead Fund Manager Practicum 3 Credits/Maximum of 6	FIN 495A Nittany Lion Fund -- Lead Fund Manager Practicum (3 per semester/maximum of 6) A Lead Fund Manager is accountable for sector performance as well as sector output. This means that while the Lead Fund Mana
FIN 495B	Nittany Lion Fund - Executive Board Practicum 3 Credits/Maximum of 6	FIN 495B - Nittany Lion Fund - Executive Board Practicum (3 per semester/maximum of 6) The Executive Board practicum affords students with intense practical experience in oversight and performance of the Nittany Lion F
FIN 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FIN 496A	**SPECIAL TOPICS** 1-6 Credits	No description
FIN 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FIN 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FINSV 420	Estate Planning for the Financial Services Professional 3 Credits	Studies the processes relating to the use, conservation, and transfer of an individual's wealth; emphasizing investments, insurance and taxation. FINSV 420 Estate Planning for the Financial Services Professional (3) This cou
CAP 100	Orientation to the Undergraduate Experience 1 Credits	To facilitate transition of new students through active engagement and introduction to university and campus resources. CAP 100s CAP 100S Orientation to the Undergraduate Experience (2)This course, CAP 100S, which is
FDSC 105	Food Facts and Fads 3 Credits	This course is an introduction to the central role of food and food production in all areas of human life. The social and technological bases of various food systems are examined from the hunter-gatherer to the agrarian to the
FDSC 134	Food, Values, and Health 3 Credits/Maximum of 3	This course studies the ethical and social issues connected to food, personal and cultural eating habits, body image and ideas of health, and agricultural practices and industrialized food production. We will discuss the follov
FDSC 150S	Food Science First Year Engagement 2 Credits	This first year seminar course was designed to facilitate transition into college with a particular emphasis on food sciences. This course is structured into two main modules, (1) general academic requirements (such as expect
FDSC 175	Careers in Food Science 2 Credits	Graduates in food science have the opportunity to pursue a range of careers in industry, academia or government. In this course students will interact with a range of food science professionals and explore their career paths
FDSC 200	Introductory Food Science 3 Credits	General overview and principles; food constituents and properties; quality and safety; preservation methods; processing animal and plant products.
FDSC 201	Introductory Food Science Practicum 1 Credits	Demonstration to illustrate actual chemical reactions in food systems and visits to campus and area food processing operations.
FDSC 207	Animal Products Technology 2 Credits	Composition, safety, palatability, preservation, and processing of foods from animals, impact of animal production and handling practices on product properties. FDSC 207 / ANSC 207 Animal Products Technology (2) This c
FDSC 208	Animal Products Technology Laboratory 1 Credits	Harvesting and processing of foods from animals; hands-on and demonstration exercises; industry procedures for processing meat, milk, and egg products. FDSC 208 / ANSC 208 Animal Products Technology Laboratory (1
FDSC 223	Understanding Science Through Wine Beer and Bread 3 Credits	Fermented beverage production has been a driving force for scientific discovery and as such is a wonderful way to introduce areas of scientific knowledge. This course will use beer, wine, and other fermented products, as w
FDSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FDSC 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
FDSC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FDSC 400	Food Chemistry and Analysis (I) 3 Credits	The focus of this course is food macro-components (water, proteins, lipids, carbohydrates) as well as food structure (phase behavior, dispersions). Food micro-components are covered in FDSC 410. Students will enter the cl
FDSC 402	Supervised Experience in Food Science Teaching 1-3 Credits/Maximum of 5	Theories and experiences of teaching and learning relevant to food science and to the work of a teaching assistant. This course provides an introduction to the ways topics in food science can be effectively taught to diverse
FDSC 403	Sensory Data Collection & Analysis 3 Credits	The field of Sensory and Consumer Science is primarily focused on responses of consumers to food products and non-food fast-moving consumer goods (e.g., shampoo). These responses may be sensory/perceptual (i.e., h
FDSC 404	Sensory Evaluation of Foods 3 Credits	Sensory evaluation of food, methods of test analyses, panel selection and training, taste sensation theory, consumer testing methods. FD SC 404 Sensory Evaluation of Foods (2) This course is designed to demonstrate how
FDSC 405	Food Engineering Principles 3 Credits	Engineering principles of importance to food manufacturing, including units, dimensions, mass and energy balance, fluid flow, rheology, heat transfer, and psychrometrics. FD SC 405 Food Engineering Principles (3)Food eng
FDSC 406W	Physiology of Nutrition 3 Credits	Physiological mechanisms involved in thirst and appetite, digestion, absorption, utilization of nutrients, respiration, and body temperature regulation.
FDSC 407	Food Toxins 3 Credits	Food Toxins focuses on natural and synthetic toxins that are relevant to the food system including those produced by food plants; those introduced by contamination of foods by microbes, non-food plants, or environmental/
FDSC 408	Food Microbiology 3 Credits	Food Microbiology focuses on the application of microbiological principles to foods and food ingredients. Topics covered include: potential for microbial growth in a particular food or food ingredient based on the following pa

FDSC 409	Laboratory in Food Microbiology 2 Credits/Maximum of 2	Methods of isolation, detection of spoilage, pathogenic microorganisms in foods; effects of processing and preservation on survival of food microorganisms. FD SC 409W Laboratory in Food Microbiology (3) Food Microbiolo
FDSC 410	Food Chemistry and Analysis (II) 3 Credits	The focus of this course is food micro-components (enzymes, allergens, secondary metabolites, contaminants, etc.) as well the major chemical reactions occurring in foods (lipid oxidation, thermal reactions). They will also lea
FDSC 411	Managing Food Quality 3 Credits/Maximum of 3	Principles and applications of Hazard Analysis Critical Control Points. Statistical tools for the control and improvement of food quality. FD SC 411 is an introduction to organizational and HACCP concepts related to quality foo
FDSC 413	Science and Technology of Plant Foods 3 Credits/Maximum of 3	Investigate the physical and chemical behavior of plant-based raw materials and ingredients, with emphasis on parameters influencing finished product quality. FD SC 413 Science and Technology of Plant Foods (3) This cou
FDSC 414	Science and Technology of Dairy Foods 3 Credits/Maximum of 3	Investigate the physical and chemical behavior of dairy-based raw materials and ingredients, with emphasis on parameters influencing finished product specifications. FD SC 414 Science and Technology of Dairy Foods (3)F
FDSC 415	Science and Technology of Muscle Foods 3 Credits/Maximum of 3	Investigate the physical and chemical properties of muscle food commodities, with emphasis on muscle-based ingredients in formulated foods. FD SC 415 Science and Technology of Muscle Foods (3)This course applies fo
FDSC 417	Food Laws and Regulations 3 Credits	This course provides a perspective to the principles and practice of food law and regulation as they impact the work of a food scientist. Food law will be discussed with reference to the roles of politics, culture, ethics (includi
FDSC 422	Communicating Research in Agricultural Sciences 1 Credits	This course provides opportunities to develop effective communication skills within the context of scientific research. Students participating in independent studies with faculty mentors will use their independent research pro
FDSC 444	Arguing about Food 3 Credits	The food science major seeks to educate students in the sciences and technologies important in the industrial manufacture of food and food scientists tend to value foods in this context. Food is good if it can be manufacture
FDSC 450	Food Innovation and Product Design 3 Credits	This course provides upper-level undergraduate students in the Food Science major with project-based learning experience in food innovation and product design. Working in small groups, students will use their foundationa
FDSC 460	International Food Production 1 Credits/Maximum of 3	FDSC 460 / INTAG 460 is designed to give food science undergraduate and graduate students an appreciation of how food is produced and processed abroad. Students participate in a number of production facility tours, int
FDSC 494H	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of a Food Science honors thesis.
FDSC 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of acitvity required.
FDSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FDSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FDSC 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FDSYS 407	The Sustainable Fork: Food Systems Decisions for Away-From-Home Eating 3 Credits	The course will incorporate economic and managerial dimensions to the discussion of food decisions in foodservice away-from-home eating contexts, particularly emphasizing the behavioral aspect of decisions - how indivic
FDSYS 442	Changing Food Systems: Comparative Perspectives 3 Credits	The course begins with an overview of the scope of food systems and an orientation to interdisciplinary and community - based approaches for understanding and addressing social and ecological problems and potential ch
FDSYS 490	From Agriculture to Culture: Perspectives on your food from seed to plate 1 Credits	This course explores a diversity of contemporary topics of the food system, as well as current and emergent career opportunities. Emphasis is on the multi-disciplinary and interdisciplinary nature of work inherent to many car
FDSYS 495	Internship 1-18 Credits/Maximum of 18	FDSYS 495 is an internship experience with a food systems related organization or entity. This individualized course includes three components: a proposal of the individualized internship, developed in conjunction with the s
FRNAR 100	Introduction to Forensic Photography 3 Credits	This course will explore the principles of forensic photography and photographic methods, and discuss the procedures and standards that differentiate forensic photography from "artistic" photography and other methods of
FRNAR 200	Intermediate Forensic Photography 3 Credits	The emphasis of FRNAR 200 is the Category 1 Forensic Photography. This course builds upon FRNAR 100, which focuses on the standards and guidelines for First Responder Forensic Photography. This course requires that
FRNSC 100	Introduction to Forensic Science 3 Credits	This course is designed for students to step into the role of a criminalist ¿ one who performs the scientific examination of evidence - as they process a case from start to finish over the semester. Students begin by learning a
FRNSC 200	Introduction to Crime Scene Investigation 3 Credits	This course offers an exploration of the science, management, and investigative techniques for the field of crime scene investigation. Students will develop the intellectual skills needed to plan for and organize a crime scene
FRNSC 210	Essential Practices of Forensic Science 3 Credits	Practices of forensic science including documentation, microscopy, communication of results, and integration of concepts from other sciences, mathematics, and statistics. FRNSC 210 Essential Practices of Forensic Scienc
FRNSC 294	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FRNSC 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
FRNSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
FRNSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FRNSC 400	Courtroom Proceedings and Testimony 1 Credits	Introduction to courtroom proceedings and testimony as they related to forensic science. FRNSC 400 Courtroom Proceedings and Testimony (1) Classroom discussions will focus on the structure and procedures of the court
FRNSC 410	A Scientific Approach to Crime Scene Investigation 2 Credits	Principles of crime scene investigation with empahsis on scientific philosophy, concepts, and procedures. FRNSC 410 A Scientific Approach to Crime Scene Investigation (2) In this course, students will learn many of the ess
FRNSC 411	Criminalistics: Trace and Impression Evidence 3 Credits	Laboratory-based examination of forensic evidence; microscopy, classification and identification. FRNSC 411 Criminalistics: Trace and Impression Evidence (3) Laboratory-based examination of physical evidence typically re
FRNSC 412	Laboratory in Criminalistics: Trace and Impression Evidence 1 Credits	Laboratory-based examination of forensic evidence; microscopy, classification and identification. Criminalistics: Trace and Impression Evidence Laboratory-based examination of physical evidence typically recovered from cri
FRNSC 413	Criminalistics: Biology 3 Credits	Laboratory-based examination of forensic evidence; biological fluid identification, hair microscopy. FRNSC 413 Criminalistics: Biology (3) Laboratory-based examination of biological evidence typically recovered from crime s
FRNSC 415W	Laboratory in Crime Scene Investigation 2 Credits	Laboratory course covering crime scene investigation with emphasis on scientific philosophy, concepts, procedures, problem solving, and hands-on activities.
FRNSC 419	Firearm and Tool Mark Examination 3 Credits	Laboratory-based examination of forensic evidence; firearms, tool marks, shooting reconstruction and related evidence. FRNSC 419 Firearms and Tool Marks Examination (3) Laboratory-based examination of firearms-relatec
FRNSC 420	Advanced Molecular Biology for Forensic Scientists 3 Credits/Maximum of 3	Classroom discussions will focus on advanced aspects of molecular biology, including as they relate to forensic DNA analysis. The course will start with an overview of molecular structures (i.e., DNA, RNA, and proteins) and a
FRNSC 421W	Forensic Molecular Biology 4 Credits	Classroom discussions will focus on the application of molecular biology techniques to forensic DNA analysis. The course will start with a history of forensic biology techniques and move quickly to modern day techniques (e.
FRNSC 425	Chromatography and Spectroscopy in Forensic Science 3 Credits	FRNSC 425 will provide the student with understanding in essential instrumentation for chemical analysis. The first section in the course will be dedicated to separation technology which is of paramount importance for furthe
FRNSC 427W	Forensic Chemistry 4 Credits	Analytical and instrumental methods used in the forensic sciences with special emphasis on the analysis and characterization of trace evidence. Forensic chemistry is a classroom and laboratory based course designed to int
FRNSC 460	Medicolegal Death Investigation 3 Credits	This course will introduce students to the concepts of medicolegal death investigation and the operations of a medical examiner or coroner's office. Topics will include determining cause and manner of death, issuing a death
FRNSC 475	Forensic Science Seminar 1 Credits	Presentation and discussion of special issues in forensic science; extension and application of background knowledge to unusual topics and cases.
FRNSC 485	The Profession of Forensic Science 2 Credits	This course will prepare students to make the transition to professional careers in forensic science and allied fields. The primary goals of this course are to: · Prepare students for the process of seeking and obtaining professi
FRNSC 485W	Coalescence of Forensic Science Concepts. 4 Credits	Advanced concepts in criminalistics as they apply to criminal and civil investigations.
FRNSC 490	Traceology & Event Reconstruction 3 Credits	This course will explore the knowledge and methods relevant to traceology and the scientific reconstruction of events. Traceology will be compared and contrasted with historical and experimental science; rigorous utilization
FRNSC 494	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FRNSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
FRNSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FORT 100	Introduction to Forestry 1 Credits	A general introduction to forest ecology, history, management, and practices.
FORT 105	Forest Measurements 3 Credits/Maximum of 3	FORT 105 is a first year, three credit course required for the completion of the associate degree in Forest Technology. The course covers the techniques, procedures, and equipment used to measure tree and forest parameter
FORT 110	Forest Inventories 3 Credits	Application of forest mensuration, mapping, GIS, sampling, and statistical analysis to the inventory of forest resources. FORT 110 Forest Inventories (3) FORT 110 is a 3-credit, field-lab-oriented course that is a continuation o
FORT 140	Forest Surveying 3 Credits/Maximum of 3	FORT 140 is a three-credit, field-lab-oriented course. Students will apply the principles of mapping and mathematics to land surveying techniques used by forest technicians and foresters. The course objectives are for stude
FORT 150	Dendrology 3 Credits	Taxonomy, identification, ranges, and uses of important U.S. timber species and lesser vegetation of a regional nature. FORT 150 Dendrology (3) FORT 150 is a first-semester, 3-credit course for students in the Forest Techno
FORT 160	Silvicultural Practices 3 Credits	Principles and techniques of forest establishment, culture, and regeneration systems. FORT 160 Silvicultural Practices (3) FORT 160 is a second- semester, three-credit course in the Forest Technology program. It builds upo

FORT 170	Forest Harvesting and Operations 3 Credits	Forest harvesting and intermediate operations: forest worker safety, hand and power tools, harvest planning, and best management practices. FORT 170 Forest Harvesting and Operations (3) FORT 170 is a three-credit, appl
FORT 175	Forest Products Industry Tour 1 Credits	FORT 175 is a 1-credit, field-based course in the Forest Technology curriculum. It provides students with the opportunity to visit and tour forest products industry facilities. Tours of sawmills, pulp and paper facilities, plywood
FORT 200	Wood Identification and Properties 1 Credits	Anatomy of wood and bark; cell wall formation and composition; and identification of wood by gross and microscopic qualities. FORT 200 Wood Identification and Properties (1) FORT 200 is a third-semester, one-credit cour
FORT 210	Arboriculture 3 Credits	Selection, planting, care, and maintenance of woody ornamental plants and shade trees grown in urban, suburban, and rural landscapes. FORT 210 Arboriculture (3) FORT 210 is a third-semester, three-credit forestry electiv
FORT 220	Forest Ecosystem Protection 4 Credits	Principles and concepts involved in managing the forest ecosystem in regard to fires, insects, and diseases. FORT 220 Forest Ecosystem Protection (4) FORT 220 is a third-semester, four-credit course that builds upon inforr
FORT 230	Introduction to Remote Sensing 2 Credits	Remote sensing technologies applied to forest resource analysis and management. FORT 230 Introduction to Remote Sensing (2) FORT 230 is a third-semester, two-credit course that explores the applications of aerial photo
FORT 240	Forest Soils and Hydrology 3 Credits	The study of forest soils and hydrology, especially as they are affected by forest management activities. FORT 240 Forest Soils and Hydrology (3) FORT 240 is a fourth-semester, three-credit course in the Forest Technology p
FORT 250	Forest Management Practices 3 Credits	Practical techniques for implementing management plans for forest stands under various ownerships and management regimes. FORT 250 Forest Management Practices (3) FORT 250 is a capstone course in the forest tech
FORT 260	GIS for Natural Resources Management 3 Credits/Maximum of 3	Geographic Information Systems technology including mapping and GIS data management procedures with emphasis on natural resource management applications. FORT 260 GIS for Natural Resources Management (3) In
FORT 295	Forest Technology Internship 1-4 Credits/Maximum of 4	Supervised field experience related to the student's major.
FORT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FORT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest
FORT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FOR 123N	Forests, Trees, and People 3 Credits	This course focuses on the relationships among forests, trees, and people. Trees are the building blocks of forests, so the course begins with an introduction to how trees work: how do they grow? how do they use water? ho
FOR 150S	First-Year Seminar 2 Credits	The objectives of this first-year seminar course are to: (1) Engage and prepare first-year college students for academic success by orienting them to the scholarly community and introducing them to available academic resou
FOR 200	The Profession of Forestry 1 Credits	Introduction to the profession of forestry and related career opportunities.
FOR 201N	Global Change and Ecosystems 3 Credits	Ecosystems across the planet are facing unprecedented pressures and changes as society seeks to support continued population growth and increasing standards of living. The course provides students with a general unde
FOR 203	Field Dendrology 3 Credits	Field identification of native and introduced trees and shrubs. FOR 203 Field Dendrology (3) This course establishes the basic skills of woody plant and tree species identification necessary for students of natural resource ma
FOR 204	Silvics and Forest Dynamics 2 Credits	Foresters are tasked to manage and/or restore forest ecosystems to sustain the provision of ecological goods (e.g., timber and non-timber forest products) and services (e.g., water, habitat, carbon sequestration). To success
FOR 228	Chainsaw Safety, Maintenance, and Operation in Forest Management 1 Credits	This course covers the detailed use of the modern chainsaw. The course begins with safety and personal protective equipment (PPE), Occupational Safety and Health Agency (OSHA) regulations, saw selection, and an introd
FOR 242	Elements of Project Supervision in Forestry 3 Credits	Supervisory techniques developed through an understanding of the behavioral sciences applied to field forestry personnel management.
FOR 255	GPS and GIS Applications for Natural Resources Professionals 3 Credits	FOR 255 GPS and GIS Applications for Natural Resources Professionals (3) FOR 255, GPS and GIS Applications for Natural Resources Professionals, teaches students to apply Global Positioning Systems (GPS) and Geogra
FOR 266	Forest Resources Measurements 4 Credits	This course focuses on the collection, analysis, and presentation of quantitative and qualitative data that describe forest resources and are used in the management and stewardship of forest resources. Sampling techniques,
FOR 295	Forestry Internship 1-4 Credits/Maximum of 4	Supervised field experience related to the student's major.
FOR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FOR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FOR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FOR 303	Herbaceous Forest Plant Identification and Ecology 3 Credits	This course focuses on developing herbaceous plant identification skills with emphasis on important plant structural features, common taxonomic terms, dichotomous keys, and botanical nomenclature. This course provides
FOR 308	Forest Ecology 3 Credits	FOR 308 FOR 308 Forest Ecology (3)This class will provide the basic concepts of forest ecology and silvics. The class will emphasize (a) community concepts such as sampling, succession, productivity, disturbance, and anim
FOR 320	Wildland Fire Management 3 Credits	This course will provide the fundamentals of wildland fire behavior and effects as they relate to natural resource management. The role of fuels, weather, and topography on fire behavior will be covered in depth, and fire beha
FOR 350	Forest Ecosystem Monitoring and Data Analysis 3 Credits	Quantitative approaches for characterization, monitoring, and comparison of forest ecosystems. FOR 350 Forest Ecosystem Monitoring and Data Analysis (3) The overall goal of this course is to provide students with opportu
FOR 370	Watershed Ecohydrology 3 Credits	Watershed Ecohydrology is an interdisciplinary scientific field that studies the interactions between water and ecological systems. This course presents foundational concepts in ecohydrology of watersheds, considers couple
FOR 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FOR 401	Urban Forest Management 3 Credits/Maximum of 3	Nature's role in community development, landscapes, arboriculture, administering urban forestry programs, land-use planning and regulatory policy, open-space conservation, civic environmentalism. The purpose of this cour
FOR 403	Invasive Forest Plants: Identification, Ecology, and Management 3 Credits	This course addresses the impacts and challenges associated with "exotic" plant invasions in eastern North American forests through an interdisciplinary exploration of topics including invasive plant identification and manag
FOR 409	Tree Physiology 2 Credits/Maximum of 2	Fundamentals of the relationship of the basic physiological functions of forest trees to form. Tree Physiology is the study of how trees grow and develop in terms of genetics; biochemistry; cellular, tissue, and organ functions;
FOR 410	Elements of Forest Ecosystem Management 3 Credits	Changing public attitudes towards the environment during the last several decades have led to a philosophical shift in how we manage our forests. The primary focus of a sound stewardship of many of our public forests has
FOR 418	Agroforestry: Science, Design, and Practice 3 Credits	Agroforestry integrates trees in agricultural landscapes, and/or agriculture products into forested areas for multiple benefits. FOR 418 Agroforestry: Science, Design, and Practice (3) (US;IL) Agroforestry is the intentional desig
FOR 421	Silviculture: Applied Forest Ecology 3 Credits	This course explores the methods available to apply ecological concepts to actively manage forested ecosystems for a variety of societal objectives. It addresses methods used to blend the maintenance of biodiversity in fore
FOR 430	Conservation Biology 3 Credits	The application of biological principles to issues in the conservation of biodiversity. FOR (W F S) 430 Conservation Biology (3) This course applies basic principles of ecology and genetics to issues regarding the conservation
FOR 431	Conservation Genetics 3 Credits	This course will provide a comprehensive overview of evolution and conservation genetics, an interdisciplinary science that focuses on understanding the processes that influence genetic diversity at the individual and popula
FOR 439	Timber Sale Administration 3 Credits/Maximum of 3	This course provides hands-on experience with all of the activities associated with overseeing a timber sale, including the legal aspects of arranging a sale, marking timber and calculating volume, road and sale layout, best m
FOR 440	Forest and Conservation Economics 3 Credits	This course focuses on economic and financial concepts and tools used in managing forests and natural resources. Specifically, students will: a) use financial tools including cost-benefit analysis to analyze forest investments
FOR 442	Forest Conservation: Principles and Practices 3 Credits	Forest conservation is the promotion and maintenance of healthy, resilient, and functioning forest ecosystems that ensure the continued provision of high-quality ecosystem services and socio-economic benefits. To achieve
FOR 445	Wildlife Habitat Management 3 Credits	This course covers concepts of wildlife habitat ecology and management. Topics include the relationship between wildlife and their habitat, identification of important plant structure and composition, quantifying vegetation st
FOR 450W	Human Dimensions of Natural Resources 3 Credits	Addresses human needs and desires, from individuals to nations, for social, ecological, and economic benefits derived from natural resource decisions.
FOR 455	Remote Sensing and Spatial Data Handling 3 Credits	FOR 455 is an advanced remote sensing and geospatial technology course emphasizing the use of remote sensors and geographic information systems to study the Earth's land surface. The course emphasizes the use of th
FOR 465	Restoration Ecology 4 Credits	Restoration ecology is a discipline that integrates principles from ecology, engineering, landscape architecture, economics and other select social sciences to repair ecosystems that have been degraded, damaged, or destro
FOR 466W	Forest Management and Planning 3 Credits	Students learn the rationale, processes, and tools for forest management decision-making and planning. Developing and communicating forest plans for forested properties. FOR 466W Forest Management and Planning (3) S
FOR 470	Watershed Management 3 Credits	Management of wild land watersheds for control of the amount and timing of water yield, water quality, erosion, and sedimentation. FOR 470 Watershed Management (3) In FOR 470 Watershed Management students are exp
FOR 471	Watershed Management Laboratory 1 Credits	Introduction to hydrologic and climatic measurements and computations useful in watershed management.
FOR 475	Principles of Forest Soils Management 3 Credits	Effect of current forest management practices on the properties and productive capacity of forest soils.
FOR 477	Field Methods in Watershed Ecohydrology 3 Credits	The fields of watershed hydrology and ecohydrology, and the careful management of forested watershed and their water resources, rely heavily on observations and accurate time series data. The collection of reliable data is
FOR 480	Policy and Administration 3 Credits	Forest resources policy objectives; criteria and goals of society; policy implementation by ownership classes; planning, administration, and evaluation of programs.

FOR 489	Supervised Experience in College Teaching 1-3 Credits/Maximum of 3	The Supervised Experience in College Teaching course provides select undergraduate students with formal, supervised teaching experience in a Forestry (FOR) course. Faculty recruit students who excel in a particular course
FOR 494	Undergraduate Research 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small group basis.
FOR 494H	Honors Thesis Research 1-6 Credits/Maximum of 999	Independent study directed by a faculty supervisor that culminates in the production of a Forestry honors thesis. This course is the means by which Forest Ecosystem Management honors students receive credit for thesis re
FOR 495	Forestry Internship 1-6 Credits/Maximum of 6	Supervised field experience related to the student's major.
FOR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FOR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FOR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
FR 1	Elementary French I 4 Credits	Grammar, with reading and writing of simple French; oral and aural work stressed. Students who have received high school credit for two or more years of French may not schedule this course for credit, without the permissio
FR 2	Elementary French II 4 Credits	Grammar and reading continued; oral and aural phases progressively increased. Students who have received high school credit for four years of French may not schedule this course for credit, without the permission of the d
FR 3	Intermediate French 4 Credits	Grammar, reading, composition, oral and aural exercises.
FR 51	Elementary Intensive French I for Graduate Students 3 Credits	Intensive introduction to French: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. FR 051 Elementary Intensive French I for Graduate Students (3)This is the first in
FR 52	Elementary Intensive French II for Graduate Students 3 Credits	Intensive introduction to French: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. FR 052 Elementary Intensive French II for Graduate Students (3)This is the se
FR 53	Intermediate Intensive French for Graduate Students 3 Credits	Continued intensive study of French at the intermediate level: reading, writing, speaking, listening, cultural contexts. FR 053 Intermediate Intensive French for Graduate Students (3)This is the third in a series of three courses
FR 83	First-Year Seminar in French 3 Credits	Critical approaches to the dimensions and directions in French/Francophone literatures and cultures. FR 083S First-Year Seminar in French (3) (GH;FYS;IL)(BA) This course meets the Bachelor of Arts degree requirements. Th
FR 111	Elementary French 6 Credits	Acquisition of basic skills in the active use of French: listening, speaking, reading, and writing.
FR 112	Intermediate French 6 Credits	Reinforcement of basic skills previously acquired in the active use of French in FR 111.
FR 137	Paris: Anatomy of a Global City 3 Credits	Exploration of the cultural, artistic, literary, and social life of the city of Paris. FR 137, taught in English, is an introduction to the cultural, artistic, literary, and social life of the city of Paris that pays particular attention to its tran
FR 138N	French Culture Through Film 3 Credits	This course presents a survey of important cultural and historical moments in France with a special emphasis on the ways in which these moments are represented in film. The course has a dual focus: 1.) a chronological and
FR 139	France and the French-speaking World 3 Credits	An introduction to the culture of France and its impact on the world. FR 139 France and the French Speaking World (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. By studying the artistic, social a
FR 142	French Fiction, Drama, and Film (In English) 3 Credits	An introduction, in English, to French and francophone literature and cultural history through film, theater, and literature. FR 142 French Fiction, Drama, and Film (in English) (3) (GH;IL)(BA) This course meets the Bachelor of A
FR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FR 199	Foreign Study--French 1-12 Credits/Maximum of 12	Intensive postintermediate grammar review, with emphasis on oral skills and vocabulary building.
FR 201	Oral Communication and Reading Comprehension 3 Credits	Emphasis on oral skills and reading for total comprehension. FR 201 Oral Communication and Reading Comprehension (4) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to imp
FR 202	Grammar and Composition 3 Credits	Grammar review and writing of short essays.
FR 270	Race and Gender in Literature Translated from French 3 Credits	A critical presentation, taught in English, of changing ideas and values on race and gender in French and Francophone literatures.
FR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FR 299	Foreign Study--French 1-12 Credits/Maximum of 12	Foreign study course in French.
FR 301	Advanced Grammar And Conversation 3 Credits	FOR MAJORS, MINORS, AND OTHERS WITH ADEQUATE PREPARATION; INTENSIVE GRAMMAR REVIEW, COMPOSITION, AND CONVERSATION.
FR 316	French Linguistics 3 Credits	Survey of the theory and methods of linguistics as they apply to the major subfields. FR 316 French Linguistics (3) The goal of this course is to provide the undergraduate student with a solid overview of the theory and meth
FR 331	French and Francophone Culture I 3 Credits	French and francophone history and culture from the Middle Ages until the French Revolution. FR 331 French and Francophone Culture I (3) (IL) This course, which fulfills the Humanities requirement within the Bachelor of Art
FR 332	French and Francophone Culture II 3 Credits	French and francophone history and culture from the French Revolution through the Third Republic. FR 332 French and Francophone Culture II (3) (IL) This course, which fulfills the Humanities requirement within the Bachelor
FR 351	French and Francophone Literature I 3 Credits	This course presents a survey of selected works of French and francophone literature from the Middle Ages to 1789. It aims to familiarize students with major literary works of this time period through close textual reading an
FR 352	French and Francophone Literature II 3 Credits	This course presents a survey of selected works of French and francophone literature from 1789 to the present. It aims to familiarize students with major literary works of this time period through close textual reading and ana
FR 397	Independent Studies 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FR 399	Foreign Study--French 1-12 Credits/Maximum of 12	Intermediate French in a study abroad program.
FR 401	Advanced Oral Communication 3 Credits	Emphasis on speaking and listening comprehension through discussion of current issues, using journalistic materials.
FR 402Y	Advanced Grammar and Writing 3 Credits	Advanced study of the structure of the French language. Intensive essay writing.
FR 408	French-American Business Translation 3 Credits	Translation from French to English of actual documents from the business world; theoretical consideration and systematic vocabulary building.
FR 409	French for Professional Purposes 3 Credits	This course prepares students to use French in a variety of professional contexts and situations via a series of interpersonal, interpretive and presentational tasks. The focus is on real world language use and developing langu
FR 410	French Press 3 Credits	Extensive readings of selected french daily and weekly newspapers and magazines, along with newscast viewings. FR 410 French Press (3) (IL) This course, which is taught in French, is designed to introduce students to the

FR 417	French Phonology 3 Credits	A formal study of the sound pattern of French. FR 417 French Phonology (3) (IL) The goal of this course is to present an introduction to the linguistic analysis of the sound pattern of French as it is actually spoken by real spea
FR 418	French Syntax 3 Credits	A formal theory of word order and related issues in French grammar. FR 418 French Syntax (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. The aim of this course is to provide the upper level undergr
FR 419	French Semantics 3 Credits	The study of meaning in human language with a special focus on how it is encoded in French. FR 419 French Semantics (3) The aim of this course is to provide upper level undergraduate students in French with a relatively i
FR 430	Contemporary France 3 Credits	This course surveys contemporary French historical, cultural, economic, and political changes from the end of WW II to the present day. A significant portion of the course is devoted to examining key events and transformati
FR 436	French and Francophone Theater 3 Credits	French Theater: From "classical unities: to Contemporary Performances.
FR 445Y	Self and Society in Eighteenth-Century France 3 Credits	The changing relationship of the individual to society in pre-Revolutionary France will be explored in texts by major writers.
FR 452Y	Nineteenth-Century French Literature 3 Credits	Selected readings in romanticism, realism, and symbolism, including Balzac, Stendhal, Sand, Baudelaire, and others, with emphasis on cultural issues. FR 452Y Nineteenth-Century French Literature (3) (IL)This course offers
FR 453Y	La Belle Epoque: Politics, Society, and Culture in France, 1880-1914 3 Credits	Interdisciplinary perspectives on the politics, society, and culture of France, 1880-1914. FR 453Y LaBelle Epoque: Politics, Society, and Culture in France, 1880-1914 (3) (IL) The goal of this course is to present and analyze th
FR 458	African Literature of French Expression 3 Credits	Genesis of Franco-African literature in the 1930s; phases of the negritude movement; colonial and national literature. FR 458 African Literature of French Expression (3) (IL)(BA) This course meets the Bachelor of Arts degree r
FR 460	Contemporary French Literature 3 Credits	Major authors and movements in French novel, drama, and poetry from Proust to the present. FR 460 Contemporary French Literature (3) This course is designed for advanced undergraduate work and it is taught in French. T
FR 470	Race and Gender Issues in Literatures in French 3 Credits	A critical presentation, taught in French, of changing ideas and values on race and gender in French and Francophone literatures. FR 470 Race and Gender Issues in Literature in French (3) (IL)(BA) This course meets the Bac
FR 471	Francophone Women in Literature and Culture 3 Credits	Women's issues in literatures and cultures of French-speaking countries in Europe, the mediterranean, Africa, the Caribbean, and Quebec. FR 471 Francophone Women in Literature and Culture (3) (IL)(BA) This course meets
FR 475	Women's History in Post-Revolutionary France 3-6 Credits/Maximum of 6	Women's history and creativity in post-revolutionary France.
FR 487	Topics in French Film History and Theory I: 1895-1945 3 Credits	Provide background needed to understand the broad outlines of French film history and theory in their first fifty years (1895-1945). FR 487 Topics in French Film History and Theory I: 1895-1945 (3) (IL)(BA) This course meets
FR 488	Topics in French Film History and Theory II: 1945-2002 3 Credits	Provide background needed to understand the broad outlines of French film history and theory in their second half-century (1945-2002). FR 488 Topics in French Film History and Theory II: 1945-2002 (3) (IL)(BA) This course
FR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FR 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FR 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
FR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FR 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
FR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
FR 499	Foreign Study--French 1-12 Credits/Maximum of 12	Advanced studies in French language and literature in a study abroad course.
FSC 401	Introduction to Fuel Technology 3 Credits	An introduction to the scientific and engineering principles of fuel technology. For non-fuel science majors; fuel science majors will not receive credit.
FSC 431	The Chemistry of Fuels 3 Credits	Nature and properties of fossil and other fuels, including aerospace, in relation to use; preparation of fuels; by-products; fuel analysis. The course deals with the formation, composition and properties of the principal naturally
FSC 432	Petroleum Processing 3 Credits	Transportation of people and goods in many parts of the world depend almost completely on petroleum fuels, such as gasoline, jet fuel, diesel fuel, and marine fuel. Apart from the fuels, materials that are necessary for operat
FSC 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FSC 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
FSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GAME 140	Gaming and Interactive Media 3 Credits	COMM 190 (GAME 140) Gaming and Interactive Media (3) The course is an introduction to the digital interactive media industries for students who may consider seeking employment in that sector, which includes video game
GAME 160N	Introduction to Video Game Culture 3 Credits	This course is a comparative introduction to the nature and history of video games as cultural artifacts, from Pong to online role-playing. It introduces students to academic discussion on and creative work in new digital form
GAME 180N	The Art and Science of Virtual Worlds 3 Credits	GAME 180N is a multidisciplinary course which introduces students to the theories, concepts, and technologies behind virtual worlds. This course will focus on the myriad ways that narrative arts and physical sciences relate
GAME 220	Introduction to Game Design 3 Credits	Design of games as aesthetic objects and cultural artifacts that people find meaningful and entertaining. In his 2007 book Persuasive Games, Professor Ian Bogost writes about the power of digital games in social, political, a
GAME 250	Technical Game Development 3 Credits	Introduction to the tools and techniques required to implement games in a virtual environment. GAME 250 / CMPSC 208 Technical Game Development. First, students learn about game and player elements by creating chara
GAME 251	2D Game Programming 3 Credits	Introduction to programming 2D Games with HTML5 and Javascript. GAME 251 2D Game Programming (3) (GQ) An introductory course on web programming, GAME 251 introduces students to HTML Programming for online
GAME 420	Advanced Game Design 3 Credits	Develop the habits of successful game designers - playing games thoughtfully, and documenting those thoughts. GAME 420 Advanced Game Design (3) Topics covered in this class will include independent game developme
GAME 430	Simulations of Human Behavior 3 Credits	In Modeling and Simulation, students will develop an understanding of the systems, processes, tools, and implications of this field.
GAME 434	Psychology of Gaming 3 Credits	Upper level course examining the core psychological principles as they apply to the topic of games. GAME 434 / PSYCH 434 Psychology of Gaming (3) This course looks at how the field of psychology can be applied to und
GAME 450	Advanced Game Programming 3 Credits	Autonomously generating object behavior and content in games. GAME 450 Advanced Game Programming (3) The course is developed in two parts, creating programs to automatically generate object behavior and world co
GAME 460	Video Game Lit Studies 3 Credits	A comparative look at the nature and history of video games as cultural artifacts, from Pond to online role-playing. This course meets the Bachelor of Arts degree requirements. The video game industry is larger than the film i
GAME 480	Game Development Project 3 Credits	A team of students manages the production of a game from concept to implementation. GAME 480 Game Development Project (3) In this course students take the entire semester to creating a game that will be published. S
GAME 495	Internship 1-18 Credits/Maximum of 999	Supervised off-campus, non-group instruction including field experiences, practicums, or internships. Written and oral critique of activity required.

GEOG 1N	Global Parks and Sustainability 3 Credits	This course uses parks and protected areas - both in the U.S. and globally - as a framework for exploring broad themes of sustainability, conservation, and socio-ecological systems. Case studies that exemplify U.S. and inte
GEOG 2N	Apocalyptic Geographies: How can we prevent the end of the world? 3 Credits	This course explores various visions of the apocalypse and their relevance for addressing major contemporary social, ecological, and economic issues. These issues include global climate change, nuclear war, the growing re
GEOG 3N	Food and the Future Environment 3 Credits	GEOG 3 introduces students to the multiple connections of people and the environment through the dynamics of food and the places where it is produced, processed, and consumed. It introduces an integrated human-envir
GEOG 4	Earth and Environmental Systems Geography 3 Credits	Earth and Environmental Systems Geography provides a means for understanding how Earth operates naturally and in response to human action. This course takes a holistic, interdisciplinary approach, focusing on the Earth
GEOG 6N	Maps and the Geospatial Revolution 3 Credits	The rapid evolution of digital mapping technology via personalized digital mapping applications and location-aware devices has completely transformed how we use place and space to make decisions about human and envi
GEOG 10	Physical Geography: An Introduction 3 Credits/Maximum of 3	Survey and synthesis of processes creating geographical patterns of natural resources, with application of basic environmental processes in resource management. GEOG 010 Introduction to Physical Geography (3) (BA) This
GEOG 10H	Physical Geography: An Introduction 3 Credits	Survey and synthesis of processes creating geographical patterns of natural resources, with application of basic environmental processes in resource management.
GEOG 20	Human Geography: An Introduction 3 Credits/Maximum of 3	Spatial perspective on human societies in a modernizing world; regional examples; use of space and environmental resources; elements of geographic planning. GEOG 020
GEOG 20U	Human Geography: An Introduction 3 Credits	Spatial perspective on human societies in a modernizing world; regional examples; use of space and environmental resources; elements of geographic planning.
GEOG 30N	Environment and Society in a Changing World 3 Credits	GEOG 30N "Environment and Society in a Changing World" introduces students to the relationships between humans and the natural environment, in addition to the theories and methods that geographers employ in address
GEOG 40	World Regional Geography 3 Credits	World Regional Geography examines a world that is undergoing political, economic, social, and environmental transformations at many different spatial scales. Viewing content through the lens of the Six Essential Elements c
GEOG 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
GEOG 107N	Immersive Technologies - Transforming Society Through Digital Innovation 3 Credits/Maximum of 3	Immersive technologies are an emerging field. Although envisioned and available for several decades, technological challenges of the past made their application in education, research, and everyday life a rather specialized

GEOG 115	Landforms of the World 3 Credits/Maximum of 3	Geography 115 World Landforms (GN) provides an introduction to the modern geologic study of landforms and the Earth processes responsible for their creation and modification. Emphasis is placed on internal geophysical
GEOG 123	Geography of Developing World 3 Credits	Patterns of poverty in poor countries; conventional and non-conventional explanations; focus on solutions; case studies of specific regions.
GEOG 124	Elements of Cultural Geography 3 Credits	Locational analysis of changes in non-Western cultures. Problems of plural societies, economic development, population growth, and settlement. GEOG 124 Elements of Cultural Geography (3) (GS;IL)(BA) This course meets
GEOG 126	Economic Geography 3 Credits	This course is an introductory course on economic geography and serves as background for any course on international economics, economic development, international political economy, and international business manag
GEOG 128	Geography of International Affairs 3 Credits	Contemporary international affairs in their geographical setting; geographic elements in the development of national power, political groupings, and international disputes. GEOG 128 Geography of International Affairs (3) (GS;
GEOG 160	Mapping Our Changing World 3 Credits	Fundamental concepts of GIS, cartography, remote sensing, and GPS in the context of environmental and social problems. GEOG 160 Mapping Our Changing World (3) (GS)(BA) This course meets the Bachelor of Arts degre
GEOG 161	Applied Geographic Information Systems 1 Credits	An introduction to GIS (Geographic Information Systems) with emphasis on applications and analysis. GEOG 161GEOG 161 Applied Geographic Information Systems (1) GEOG 161 is a one-credit two-hour laboratory course
GEOG 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
GEOG 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GEOG 210	Geographic Perspectives on Environmental Systems Science 3 Credits	This lecture, lab and field-based course explores Earth's physical environment and its interactions with human activities. While it is intended primarily for Geography majors and minors, the subject matter and approach are su
GEOG 220	Perspectives on Human Geography 3 Credits	Why are some countries richer than others? How do consumption patterns in one part of the world affect 'far flung' peoples and environments? How does global warming shape land use patterns and rates of hunger across
GEOG 230	Geographic Perspectives on Environment, Society and Sustainability 3 Credits	Recommended Preparations: Completion of a basic rhetoric and composition course (ENGL 15; ENGL 30 ENG 137 CAS 137 ESL 15) OR completion of College of Earth and Mineral Sciences First-Year Seminar EMSC 100 i
GEOG 260	Geographic Information in a Changing World: Introduction to GIScience 3 Credits	In a rapidly changing world, detailed, up-to-date geographic data are indispensable ingovernance, commerce, security, public health, and many other domains. These data are also needed to support research intended to imp
GEOG 265	Fundamentals of Geospatial Data Science 3 Credits	Quantitative analysis and data-science skills are increasingly crucial for the study of geography. Emerging technologies, 'big data' and increased computational power have transformed our ability to understand patterns and
GEOG 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GEOG 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
GEOG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOG 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOG 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GEOG 301	Thinking Geographically 3 Credits	Learning to think geographically. GEOG 3GEOG 301 Thinking Geographically (3) The course explores the process of thinking geographically. As a discipline that draws on elements of four intellectual traditions - the physical
GEOG 308	Research and Qualitative Inquiry in Geography 3 Credits	This course examines the theory and practice of research in geography, with particular emphasis on qualitative inquiry commonly used by human as well as environment-society geographers. Students will explore fundament
GEOG 310	Introduction to Global Climatic Systems 3 Credits	This intermediate-level course in Climatology emphasizes geographic patterns of interannual climate variability (climate variations) and physical processes responsible for those variations (climate dynamics). Interannual clima
GEOG 310W	Introduction to Global Climatic Systems 3 Credits	Introduction to global atmospheric circulation, including tropical, midlatitude and polar subsystems; ocean, land, cryospheric and urban climatic systems and interactions. GEOG 310W GEOG 310W Introduction to Global Cli
GEOG 313	Introduction to Field Geography 3 Credits	Introduction to the methods and techniques for collecting spatial and environmental data for physical geography and ecological studies. GEOG 313GEOG 313 Introduction to Field Geography (3) This course explores a varie
GEOG 314	Biogeography and Global Ecology 3 Credits	Dynamics of plant and animal distributions on global, regional, and local scales; their causes and consequences.
GEOG 315	Landforms and Geomorphic Systems in the Anthropocene 3 Credits	Geography 315 builds on concepts presented in the introductory physical geography course to explore the subfield of geomorphology from a geographic perspective. It surveys the various processes shaping Earth's surface
GEOG 320	Urban Geography: A Global Perspective 3 Credits	For the first time in human history, urban dwellers came to outnumber rural residents in the year 2000. The influence of cities extends to nearly every point on the globe. Urban areas, however, differ dramatically in their physic
GEOG 324	Place, Space and Culture 3 Credits	What is culture? Is it good literature, music, art and food? Or is it a full range of learned human behavior? Culture is in itself a very exciting topic; it invokes diverse imaginaries of life, livelihoods, ways of living, languages, and
GEOG 326	Geographic Perspectives on Economic Systems 3 Credits	This course builds on concepts presented in the introductory human geography course to explore the subfield of economic geography. It serves as a foundation for courses on economic development, political economy, and
GEOG 328	War, Peace, and Diplomacy: Understanding Contemporary Geopolitics 3 Credits	This course expands on concepts presented in the introductory human geography course, understanding geopolitics and international relations through an examination of the spatial relationships among political processes a
GEOG 330N	Political Ecology 3 Credits	This course introduces students to political ecology as one approach to advanced human-environment studies in geography. Political ecology is an interdisciplinary approach that combines environmental justice, cultural eco
GEOG 332N	Science and policy of global greenhouse gas emissions and management 3 Credits	This interdomain course introduces students to the science and policy of greenhouse gas emissions. The course focuses on emissions from natural sources, energy production and food production. Policy components will in
GEOG 333	Human Dimensions of Natural Hazards 3 Credits	An introduction to natural hazards, integrating physical and social science perspectives. GEOG 333 Human Dimensions of Natural Hazards (3)(BA) This course meets the Bachelor of Arts degree requirements. Natural hazard
GEOG 340	Thinking Sustainably 3 Credits	We live in a time marked by unrelenting environmental challenges and increasing awareness of the human impact on the planet. The need for sustainable practices has never been more critical. This comprehensive course in
GEOG 344	Sustainability Methods 3 Credits	In today's rapidly changing world, the pursuit of sustainable development has become an urgent priority. Governments, organizations, and communities worldwide are increasingly adopting policies aimed at addressing press
GEOG 361	Cartography--Maps and Map Construction 3 Credits/Maximum of 3	The art and science of creating small-scale maps as a medium for communication and research. GEOG 361GEOG 361 Cartography - Maps and Map Construction (3)(BA) This course meets the Bachelor of Arts degree requi
GEOG 362	Image Analysis 3 Credits/Maximum of 3	Introduction to the basic principles of remote sensing, and the analysis of aerial and satellite data. GEOG 362 GEOG 362 Image Analysis (3)(BA) This course meets the Bachelor of Arts degree requirements. Geography 362 is
GEOG 363	Geographic Information Systems 3 Credits	This course describes and explains the principles of Geographic Information Systems (GIS). Building on the overall introduction in the prerequisite course on the special characteristics of spatial data and how our earth is mea
GEOG 364	Spatial Analysis 3 Credits/Maximum of 3	Geographic measurement, scaling, and classification; analysis of spatial pattern and structure; geographic covariation and autocorrelation. GEOG 364GEOG 364 Spatial Analysis I (3)(BA) This course meets the Bachelor of Ar

GEOG 365	Introduction to GIS Programming 3 Credits	The rate at which geospatial data are being generated exceeds our ability to analyze them. These developments are quickly leading toward a data-rich but knowledge-poor environment. New challenges arise from an unprece
GEOG 390	Professional Development Seminar in Geography 1-3 Credits/Maximum of 4	This course equips geography students with a toolkit for career development as they explore the discipline, develop professional networks, and move into life "beyond" Penn State. It will help students develop a deeper unde
GEOG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
GEOG 398	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
GEOG 398A	**SPECIAL TOPICS** 1-3 Credits	No description
GEOG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GEOG 411	Forest Geography 3 Credits	This course studies processes that control spatial and temporal change in forests.
GEOG 411W	Forest Geography 3 Credits	This course studies processes that control spatial and temporal change in forests.
GEOG 412W	Climatic Change and Variability 3 Credits	Theories and observations of past, present, and future climatic change and variability; introduction to techniques used in climatic change research. GEOG 412W Climatic Change and Variability (3)(BA) This course meets the E
GEOG 413	Cryosphere and Climate Systems 3 Credits	Earth's cryosphere is undergoing rapid change, with high latitude warming and ice losses among the most prominent signatures of anthropogenic climate change. In turn, cryospheric changes possess global ramifications, in
GEOG 414	Principles and Applications in Landscape Ecology 1-3 Credits	Landscape ecology is a rapidly evolving discipline that is poised to address contemporary challenges in sustainability science, land management, and conservation. The focus of landscape ecology is on the controls, interact
GEOG 417	Satellite Climatology 3 Credits	A discussion of the application of satellite data to current and planned large-scale climate experiments. GEOG 417GEOG 417 Satellite Climatology (3)(BA) This course meets the Bachelor of Arts degree requirements. Geogra
GEOG 420Y	Comparative Urbanism 3 Credits	This course investigates selected urban issues through the lens of comparative urbanism. GEOG 420Y Comparative Urbanism (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements. As an upper level ur
GEOG 421	Population Geography 3 Credits	This course examines key demographic characteristics of the U.S. population and how they are distributed in space. At the same time, we will look at how individuals come to be part of a population and with what implicatior
GEOG 424W	Geography of the Global Economy 3 Credits	This course examines the actors, processes, and policies relevant to understanding the global economic system. How does the global economy work? How is it changing? What are the pieces and how do they fit together? V
GEOG 425	Geography of Race, Class, and Poverty in America 3 Credits	This class examines the spatial interactions of race, class and poverty in the United States. GEOG 425 Geography of Race, Class, and Poverty in America (3) (US)(BA) This course meets the Bachelor of Arts degree requiremε
GEOG 426W	Gendered Worlds 3 Credits	Gendered Worlds examines how systems of dominance manifest in everyday life. Through an intersectional approach to social differences, such as gender, race, class, ethnicity, age, ability, and sexuality, the course highlights
GEOG 428W	Political Geography 3 Credits	This upper-level undergraduate seminar examines theories and concepts of political geography, with special emphasis on the geographic foundations of power in a globalizing world. The course covers the foundational themι
GEOG 429	Geographic Perspectives on Global Urbanization 3 Credits	This course reflects critically on a number of issues related to global urbanization, including the culture and political economy of urban space.
GEOG 430	Human Use of Environment 3 Credits	The human use of resources and ecosystems and social causes and consequences of environmental degradation in different parts of the world; development of environmental policy and management strategies. GEOG 4300
GEOG 431	Geography of Water Resources 3 Credits	GEOG 431 is designed for students to understand the natural processes of aquatic ecosystems, management of water resources, and threats to sustaining water quantity and quality, for all types of freshwater surface, groun
GEOG 432	Energy Policy 3 Credits	Analysis, formulation, implementation, and impacts of energy-related policies, regulations, and initiatives.
GEOG 433	Geographies of Justice 3 Credits	The justice concept has been a topic of interest within various academic and policy realms concerned with the inequities experienced by racial groups, socio-economic class, and ethnicity. The environment justice movement
GEOG 434	Politics of the Environment 3 Credits	This course explores politics related to the use, transformation, valuation, and representation of the environment. GEOG 434GEOG 434 Politics of the Environment (3) Scholarship in geography and related disciplines has der
GEOG 436	Ecology, Economy, and Society 3 Credits	Analyses of major themes in ecology and economic development, poverty- alleviation, and sustainability. GEOG 436GEOG 436 Ecology, Economy, and Society (3) For many years, it was believed that there was a direct trade
GEOG 437W	Energy Geographies and Policy 3 Credits	This course explores the motivations, key concepts, and contemporary challenges of US and international energy policy. The approach of the course is inherently geographical in that we engage the concepts of scale, place,
GEOG 438W	Human Dimensions of Global Warming 3 Credits	Human dimensions of climate change: human causes, human consequences, and policy implications of global warming. GEOG 438W - Human Dimensions of Global Warming (3)(BA) This course meets the Bachelor of Arts (
GEOG 439	Property and the Global Environment 3 Credits	This course reviews theoretical and empirical relationships between multiple legal, economic, and cultural approaches to property, and environmental quality and conflicts. GEOG 439GEOG 439 Property and the Global Envir
GEOG 440	Environment, Society, and Sustainability Capstone 3 Credits	In this project-based capstone course, students will address real-world sustainability challenges through focused research. Building on coursework in the Environment, Society, and Sustainability major, students will work ind
GEOG 444	African Resources and Development 3 Credits	Ecological and cultural factors in the geography of Africa; natural resources and development. GEOG 444 / AFR 444 African Resources and Development (3) (BA) This course meets the Bachelor of Arts degree requirements.
GEOG 448	Neighborhoods and Health Equity 3 Credits	This course examines local and regional domains of disease prevention, health behavior and promotion, and health inequities in the context of urban and suburban neighborhoods. We will draw on urban geographic and soci
GEOG 453	Geospatial Applications in Water Resources & Aquatic Ecosystems 3 Credits	This course is designed to expose students to different geospatial analysis applications in water resources. It will emphasize geospatial data acquisition of hydrologic features, spatial analysis, and data representation. Studer
GEOG 461	Geovisualization 3 Credits	Most maps produced today are electronic, dynamic, and often ephemeral -- with millions of maps generated on the web each day. At the same time, computer graphics technologies developed to enable scientific visualizatic
GEOG 461W	Dynamic Cartographic Representation 3 Credits	Theory and practice of mapping and geo-representation in a dynamic media context. Applications in science, policy, travel, and education. GEOG 461W GEOG 461W Dynamic Cartographic Representation (3)(BA) This cours
GEOG 462	Advanced Observation of Earth and Its Environment 3 Credits	Recommended Preparations: (GEOG 365 AND GEOG 464) OR prior exposure to R programming language This course will provide the requisite materials to understand and apply techniques of remote sensing to study Eart
GEOG 463	Geospatial Information Management 3 Credits	This course examines geospatial data representations and algorithmic techniques that apply to spatially-organized data in digital form.
GEOG 464	Advanced Spatial Analysis 3 Credits	Skills and knowledge for applying quantitative methods to analyze information with spatial distributions. GEOG 464GEOG 464 Analysis and GIS (3)(BA) This course meets the Bachelor of Arts degree requirements. Geograph
GEOG 465	Advanced Geographic Information Systems Modeling 3 Credits	Before taking GEOG 465, students will have learned the fundamentals and principles of GIS. This course extends such knowledge to modeling geospatial scenarios. A GIS model simulates real-world phenomena, including e
GEOG 467	Applied Cartographic Design 3 Credits	Project-based map production problems with emphasis on map design and advanced mapping tools in geographic information systems. GEOG 467 Applied Cartographic Design (3)(BA) This course meets the Bachelor of Ar
GEOG 468	Geographic Information Systems Design and Evaluation 3 Credits	Design and evaluation of Geographic Information Systems and other forms of integrated spatial data systems. GEOG 468GEOG 468 Geographic Information Systems Design and Evaluation (3)(BA) This course meets the Ba
GEOG 469	Energy Industry Applications of GIS 3 Credits	Roles of geographic information systems in energy siting decisions focusing on electric energy transmission networks. GEOG 469 Energy Industry Applications of GI S (3) Over 2 million miles of oil and gas pipeline and nearl
GEOG 479	Spatial Data Science for Cyber and Human Social Networks 3 Credits	This course examines the nexus of geospatial intelligence analysis with cyberspace, the geopolitics of cyber threats, the politics of censorship and hacking, public safety, disaster response, and humanitarian relief. Students v
GEOG 480	Exploring Imagery and Elevation Data in GIS Applications 3 Credits	Using imagery and terrain data in typical application scenarios faced by the geospatial professional.
GEOG 481	Topographic Mapping with Lidar 3 Credits	Using airborne topographic lidar to create elevation models for GIS applications.
GEOG 482	Making Maps That Matter With GIS 3 Credits	Despite its widespread use in thousands of organizations worldwide, Geographic Information Systems (GIS) remains for many an obscure set of technologies and professional practices. Even practicing GIS professionals ma
GEOG 483	Problem-Solving with GIS 3 Credits	How geographic information systems facilitate data analysis and communication to address common geographic problems. GEOG 483
GEOG 484	GIS Database Development 3 Credits	Database design, creation, maintenance, and data integration using desktop GIS software. GEOG 484
GEOG 485	GIS Programming and Software Development 3 Credits	The course focuses on solving geographic problems by modifying and automating generic Geographic Information System (GIS) software through programming. In GEOG 485, students use the Python programming language
GEOG 486	Cartography and Visualization 3 Credits	Theory and practice of cartographic design emphasizing effective visual thinking and visual communication with geographic information systems. GEOG 486
GEOG 487	Environmental Challenges in Spatial Data Science 3 Credits	This course takes a problem-based approach to investigating, evaluating, and communicating the results of spatial analysis applied to a wide variety of environmental challenges. Students will develop competencies related t
GEOG 489	Advanced Python Programming for GIS 3 Credits	In GEOG 489, you will learn advanced applications of Python for developing and customizing GIS software, designing user interfaces, and solving complex geoprocessing tasks using both proprietary and open source platfor
GEOG 493	Service Learning 3-12 Credits/Maximum of 12	Classroom instruction with supervised student activity on a group community service project. GEOG 493GEOG 493 Service Learning (3-12) GEOG 493, Service Learning, provides students with activities that integrate comm
GEOG 494	Research Project in Geography 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GEOG 494H	Research Project in Geography 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GEOG 495	Internship 1-13 Credits/Maximum of 13	Supervised off-campus, non-group instruction including individual field experience, practicums, or internships. Written and oral critique of activity required.
GEOG 495B	Geography Teaching Internship 1-10 Credits/Maximum of 10	GEOG 495B Geography Teaching Internship (1-10)(BA) This course meets the Bachelor of Arts degree requirements. The Teaching Internship provides undergraduate students with formal, supervised teaching experience. Ins
GEOG 495C	Internship Supervision and Mentoring 1 Credits	GEOG 495C Internship Supervision and Mentoring (1)(BA) This course meets the Bachelor of Arts degree requirements. GEOG 495C enables MGIS students who participate at a distance through the University's World Camp
GEOG 495G	Giscience Internship 1-10 Credits/Maximum of 10	GEOG 495GGEOG 495G Giscience Internship (1-10)(BA) This course meets the Bachelor of Arts degree requirements. Prospective interns apply directly to faculty members in charge of the Department of Geography's Geo V

GEOG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GEOG 497	Special Topics 1-9 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOG 498	Special Topics 1-9 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOG 498A	**SPECIAL TOPICS** 1-3 Credits	No description
GEOG 498B	**SPECIAL TOPICS** 2-3 Credits	No description
GEOG 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GEOSC 1	Physical Geology 3 Credits	Earth processes and their effects on the materials, structure, and morphology of the earth's crust. Practicum includes field work, study of rocks, minerals, dynamic models, and topographic maps. (This course includes from
GEOSC 2	Historical Geology 3 Credits	History of the earth and its life; fundamentals of evolution, correlation, and paleogeography; practicum includes field trips, study of geologic maps, geologic problems, and fossils, with emphasis on Appalachian geology. (This
GEOSC 10	Geology of the National Parks 3 Credits	"Geology of the National Parks" uses the unsurpassed features of national parks to address the key questions of geology and the environment. Each topic is introduced with a virtual field trip to a specially chosen national pa
GEOSC 20	Planet Earth 3 Credits	GEOSC 20 is a 3-credit, introductory level course about the Earth, and since you live on the Earth, you will be affected by the topic we will cover this semester. We will emphasize earth processes and materials that affect the
GEOSC 21	Earth and Life: Origin and Evolution 3 Credits	Introduction to the origin and evolution of life on Earth from the perspective of geologic time and the fossil record. GEOSC 021
GEOSC 30	Volcanoes 3 Credits	Basic concepts in Volcanology and Geosciences are explored through a series of virtual field trips to historic eruptions. Since the dawning of history, humankind has been faced with the destructive power of volcanoes. Volca
GEOSC 40	The Sea Around Us 3 Credits	Introduction to marine sciences and the world ocean, including physical, chemical, biological, and geological aspects of oceanography. GEOSC 40 The Sea Around Us (3) (GN)(BA) This course meets the Bachelor of Arts deg
GEOSC 40H	The Sea Around Us 3 Credits	Introduction to marine science, including physical, chemical, biological, and geological aspects of oceanography; the sea as a multipurpose natural resource.
GEOSC 50	Planetary Geology 3 Credits	Planetary Geology will introduce students to the rocky planets and moons of the solar system. Students will learn the geological processes that are important in the shaping of planetary surfaces and interiors, as well as their
GEOSC 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOSC 107N	Rocks, Minerals, and the History of Art 3 Credits	This online course investigates select rocks and minerals used in the production of art between the Prehistoric Era and the Early Modern period. Topics covered include chemical and physical properties, occurrence in nature,
GEOSC 109H	Earthquakes and Society 3 Credits	Introduction to earthquakes and seismology, and their relationship to society, including monitoring for nuclear weapons and seismic hazards. GEOSC 109H
GEOSC 110H	The Science of Gemstones 3 Credits	From Biblical times to the present, gems and precious metals have served as the standard by which empires have measured their worth. Through the ingenious marketing of an international cartel, diamonds have become ide
GEOSC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOSC 201	Earth Materials 4 Credits	Elements of crystallography and crystal chemistry; origin, occurrence, and identification of sedimentary, igneous, and metamorphic rocks and their minerals. This course has one or more required field trips for which a fee is c
GEOSC 202	Chemical Processes in Geology 4 Credits	An in-depth examination of the application of chemical principles to geological processes.
GEOSC 203	Physical Processes in Geology 4 Credits	An in-depth examination of various physical processes that operate within and at the surface of the earth. GEOSC 203 Physical Processes in Geology applies basic principles from physics and mathematics to explore and ur
GEOSC 204	Geobiology 4 Credits	An introduction to how biological processes and materials are used to solve geological problems. GEOSC 204
GEOSC 210	Geoscience Data Analytics 3 Credits	Modern geoscience careers require students to be versatile in managing and analyzing data, solving quantitative problems, comfortable in statistical analysis and projection, and adept in presenting numerical interpretations t
GEOSC 212N	Earthquakes and Human History 3 Credits	A natural disaster is the result of a natural hazard impinging upon human society. In this course we examine seismicity as a geophysical phenomenon and as a natural hazard that interacts with the built environment and the s
GEOSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projcts, including research and design, which are suprvised on an individual basis and which fall ouside the scope of formal courses.
GEOSC 296H	Independent Studies 1-18 Credits/Maximum of 18	Creative projcts, including research and design, which are suprvised on an individual basis and which fall ouside the scope of formal courses.
GEOSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOSC 301	Plate Tectonics 3 Credits	Plate Tectonics plays a primary role in virtually all geologic/tectonic processes, and is the foundation for most disciplines within geosciences. This course will cover plate tectonic topics in depth and will explore the processes
GEOSC 302	Global Biogeochemistry 3 Credits	Biogeochemistry is the exploration of the physical, chemical, and biological processes that govern the exchange of energy and elements between the biosphere and geosphere. This course will examine principal biogeochem
GEOSC 303	Introduction to Environmental Geology 3 Credits	Origin of earth and earth materials; natural resources, geologic barriers and hazards, and relationships to human use of the environment. (This course includes from one to several field trips for which an additional charge will
GEOSC 310	Earth History 4 Credits	The principles of stratigraphy and paleontology and their use, in combination with plate tectonics, in reconstructing the earth's history. This course has one or more required field trips for which a fee is charged to the student.
GEOSC 320	Geology of Climate Change 3 Credits	Geologic evidence for climate change and mechanisms of change, especially from the Ice Age through the near future. GEOSC 320
GEOSC 340	Geomorphology 3 Credits	Physical and chemical processes operating at the earth's surface and their resulting landforms. This course has one or more required field trips for which a fee is charged to the student.
GEOSC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOSC 400	Paleoclimatology 3 Credits	This course will discuss past climate dynamics, as well as touch on what we know about ancient environments, human interactions and responses to changing climates, and methodological developments within the field. We
GEOSC 401	Geosciences Entrepreneurship: Embrace Change 3 Credits	This course explores the intersection of entrepreneurship and geoscience, focusing on emerging fields and the changing dynamics of traditional industries. Targeted at upper-level undergraduate and graduate students of all r
GEOSC 402Y	Natural Disasters 3 Credits	Case studies of the causes and consequences of natural disasters; analysis of disaster impact in different economic, cultural, and social conditions. GEOSC 402 Natural Disasters (3) (IL)(WAC) Is anywhere safe from natural d
GEOSC 405	Hydropedology 3 Credits	Soil and water interactions across scales, integrated studies of landscape- soil-water relationships, fundamental processes of water flow and chemical transport. SOILS (GEOSC) 405 Hydropedology (3)Hydropedology is the
GEOSC 409W	Geomicrobiology 3 Credits	Investigation of modern and ancient microbial interactions with soils, sediments, the atmosphere, minerals, rocks, nutrients, and pollutants.
GEOSC 410	Marine Biogeochemistry 3 Credits	Exploration of the ways in which life influences and is influenced by chemical, physical, and geological processes in the ocean. GEOSC 410
GEOSC 412	Water Resources Geochemistry 3 Credits	Aqueous geochemistry of silica, alumina, carbonate minerals, and selected metals; organic species in water; isotope geochemistry applied to water.
GEOSC 413W	Techniques in Environmental Geochemistry 3 Credits	This course teaches techniques needed for the collection, chemical analysis, and data analysis of environmental geochemical measurements. This course has one or more required field trips for which a fee is charged to the s

GEOSC 414	Carbonate Geochemistry 3 Credits	Carbonate minerals that form in lakes, soils, and oceans help us understand the chemistry and biology of their environment. In this course, we build a foundation of carbonate equilibrium chemistry as a framework for discuss
GEOSC 415	Geochemistry 3 Credits	Element abundance and genesis, application of chemical principles to earth materials, element fractionation in geologic processes.
GEOSC 416	Stable and Radioactive Isotopes in Geosciences: Introduction 3 Credits	Discussions on theories for natural isotopic and element variations and their applications to the solution of geologic and cosmologic problems.
GEOSC 418	Soil Environmental Chemistry 3 Credits	Introduction to chemical constituents and processes occurring in soils. Topics include mineral weathering, soil solution chemistry and adsorption of solutes. GEOSC 418GEOSC 418 (SOILS 419) Soil Environmental Chemistry
GEOSC 419	The Organic Geochemistry of Natural Waters and Sediments 3 Credits	Composition, sources, and fates of particulate and dissolved organic matter in natural environments; biogeochemical processes; organic geochemistry of anthropogenic contaminants.
GEOSC 420	Paleobotany 3 Credits	Classification, morphology, phylogeny, and stratigraphic occurrence of fossil plants; practicum includes field trips and study of paleobotanical techniques and specimens. GEOSC 420 BIOL (GEOSC) 420 Paleobotany (3) Lan
GEOSC 422	Vertebrate Paleontology 3 Credits	Course covers scientific thinking and skills in scientific writing, the history of vertebrates, and modern evolutionary theory applied to vertebrates.
GEOSC 424	Paleontology and Fossils 3 Credits	Concepts and procedures using fossils to solve problems in systematics, evolution, biostratigraphy, correlation, sedimentation, paleoecology, and global change.
GEOSC 434	Volcanology 3 Credits	Phenomena and products of volcanic eruptions; physical characteristics of lava and pyroclastic material.
GEOSC 435	GEOSCHOLARSHIP 3 Credits	The goal of this class is to learn how to function as a geoscientist engaged in the relentless pursuit of knowledge. This course aims to benefit students in professional development, preparation for advanced courses, and sen
GEOSC 439	Principles of Stratigraphy 3 Credits	An introduction to the description and genesis of sedimentary rock bodies, the determination of their stratal geometries, and their correlation. (This course includes from one to several field trips for which an additional charge
GEOSC 440	Marine Geology 3 Credits	Chemical and physical processes affecting the topography and sediments of the sea floor.
GEOSC 444	Matlab Applications for Geoscience 2 Credits	An introduction to Matlab: m-file development, descriptive statistics, bootstrapping, Fourier transforms, regression, interpolation, least-squares, differentiation, integration, differential equations, signal analysis, graphics. GEO
GEOSC 450	Risk Analysis in the Earth Sciences 3 Credits	An introduction to concepts and methods of quantitative risk anlaysis with focus on water, climate, and energy related risks. GEOSC 450 Risk Analysis in the Earth Sciences is an introduction to concepts and methods of qua
GEOSC 451	Natural Resources: Origins, Economics and Environmental Impact 3 Credits	Geologic, economic and environmental issues related to exploitation of non-renewable natural resources (metals, minerals, rocks, and fossil fuels). GEOSC 451GEOSC 451 Natural Resources: Origins, Economics and Enviro
GEOSC 452	Hydrogeology 3 Credits	Hydrologic cycle: occurrence, movement, quality, and quantity of groundwater; solute transport; quantitative hydrogeologic methods; role of water in geologic processes. This course has one or more required field trips for w
GEOSC 454	Geology of Oil and Gas 3 Credits	Properties, origin, migration, and occurrence of oil and gas. This course has one or more required field trips for which a fee is charged to the student.
GEOSC 460	Principles of Igneous and Metamorphic Petrology 3 Credits/Maximum of 3	Igneous and metamorphic processes drive planetary evolution. This course is designed to provide an understanding of the formative processes of igneous and metamorphic rocks through application of simple physical and c
GEOSC 465	Structural Geology 4 Credits	Effects and mechanics of deformation of the earth's crust; practicum includes field trips and studies of maps and structural problems. This course has one or more field trips for which a fee is charged to the student.
GEOSC 470W	Introduction to Field Geology 3 Credits	Field interpretation of geologic features; principles and techniques of geologic mapping; interpretation of geologic maps and diagrams. This course has one or more required field trips for which a fee is charged to the student
GEOSC 472A	Field Geology I (Introduction to Field Methods 3 Credits	Introduction to geologic field methods and the 3-D characterization of earth structure and the reconstruction of geologic histories. This course includes travel outside the University for which an additional charge will be made
GEOSC 472B	Field Geology II (Advanced Field Methods) 3 Credits	Advanced application of geologic field methods to the 3-D characterization of earth structure and the reconstruction of geologic histories. This course includes travel outside the University for which an additional charge will b
GEOSC 474	Astrobiology 3 Credits	Astrobiology is the study of life in the universe. Astrobiology has become a major focus of scientific research in the United States and a topic often discussed in popular science literature. The recent interest in astrobiology ha
GEOSC 479	Advanced Stratigraphy 3 Credits	Modern topics of sequence stratigraphy are addressed, with a heavy emphasis on field and laboratory data analysis and interpretation.
GEOSC 480	Planetary Geophysics 3 Credits	GEOSC 480 is an advanced geophysics course that introduces students to the mathematics and physics behind the processes governing planet formation and planet evolution. Students will learn about planet and star forma
GEOSC 481	Petroleum Seismology 4 Credits	The proposed course will be specially designed for undergraduate students (junior or senior) who are eager to pursuing a career in petroleum energy industry or pursuing a grad school in exploration seismology as well as nev
GEOSC 482	Satellite Remote-Sensing For Earth Observation 4 Credits	Comprehensive introduction to theory and methods in remote-sensing, covering optical, thermal and radar methods and their application in geosciences.
GEOSC 483	Environmental Geophysics 3 Credits	This course presents the principles and applications of the variety of techniques geophysicists use to address environmental problems.
GEOSC 487	Analysis of Time Series 3 Credits	Nonstatistical approach to data analysis; spectral and correlation analysis; filter theory; signal-to-noise improvement applied to geoscience data.
GEOSC 488	An Introduction to Seismology 4 Credits	An overview of the observations, methods, and frameworks used in seismogram analysis for earthquake and earth-structure investigations (includes laboratory). GEOSC 488
GEOSC 488H	An Introduction to Seismology 4 Credits	An overview of the observations, methods, and frameworks used in seismogram analysis for earthquake and earth-structure investigations (includes laboratory).
GEOSC 489	Dynamics of the Earth 4 Credits	Constitution and dynamics of the solid earth; mechanics and consequences of Plate Tectonic processes.
GEOSC 494M	Thesis Research 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual, or small group basis. ,
GEOSC 494W	Senior Thesis 1-4 Credits/Maximum of 4	Supervised student activities on research projects identified on an individual, or small group basis. ,
GEOSC 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
GEOSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GEOSC 496H	Independent Studies 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GEOSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GEOSC 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GER 1	Elementary German I 4 Credits	Introduction to listening, speaking, reading, and writing with emphasis on the first two skills; cultural aspects through readings and videos. Students who have received high school credit for two or more years of German may
GER 2	Elementary German II 4 Credits	GER 2 is a continuation of GER 1; further introduction of basic structures, culture, and development of four basic skills stressing aural-oral aspects. Students who have received high school credit for four or more years of Ger
GER 3	Intermediate German 4 Credits	Continued four-skill development with increased emphasis on reading, writing, and grammatical accuracy; culturally-oriented reading selections and videos. Students may receive credit for only one of the following: GER 003
GER 11	Intensive Basic German 6 Credits	Listening, speaking, reading, writing, basic structures and vocabulary of German. Taught on an accelerated basis. Students may receive credit for only one of the following: GER 001, 011, or 015.
GER 12	Intensive Intermediate German 6 Credits	Continued skill development of structures and vocabulary; listening, speaking, reading, writing. Taught on an accelerated basis. Students may receive credit for only one of the following: GER 002, 003, 012, or 016.
GER 51	Elementary Intensive German for Graduate Students I 3 Credits	Intensive introduction to German: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. GER 051 Elementary Intensive German for Graduate Students (3)This is the first
GER 52	Elementary Intensive German for Graduate Students II 3 Credits	Intensive introduction to German: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. GER 052 Elementary Intensive German for Graduate Students II (3)This is th
GER 53	Intermediate Intensive German for Graduate Students 3 Credits	Continued intensive study of German at the intermediate level: reading, writing, speaking, listening, cultural contexts. GER 053 Intermediate Intensive German for Graduate Students (3)This is the third in a series of three cour
GER 83	First-Year Seminar in German 3 Credits	Germany's cultural past and present. GER 083S First-Year Seminar in German (3) (GH;FYS;US;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to give the student an introductory
GER 99	Foreign Study--German 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

GER 100	German Culture and Civilization 3 Credits	German 100 provides a cultural history of Germany, Switzerland, and Austria from the Roman Empire to the Nazi defeat. Readings and discussions will be in English. The class examines the role of German tribes in the collap
GER 115N	Science, Humanity and Catastrophe: Scientific Discovery in Germany 3 Credits	The 20th century was a time of great scientific advancement - advancements that were used both for good and for evil (and for other purposes that lie somewhere in between). Germany and German-speaking scientists playe
GER 123	Genocide in Global perspectives: Twentieth Century and beyond 3 Credits	The history and memory of the Holocaust, the Armenian, Cambodian and other forms of genocide are often taught separately in different disciplines. This course will examine them together through the various ways different
GER 128N	The Holocaust in Film and Literature 3 Credits	This class studies how art, literature, film, and other media can help us to gain a perspective on one of the most horrific events in human history, the Holocaust: the genocidal murder of more than six million men, women, and
GER 143	The Culture of Stalinism and Nazism 3 Credits	This course, which is cross-listed between Russian and German, aims to acquaint students with an important and troubling chapter of 20th-century culture. The regimes of Stalin and Hitler have had a decisive impact not onl
GER 157N	The Amish 3 Credits	This course investigates the history, culture, religion, beliefs, language and society of the Old Order Amish and related Anabaptist sectarian groups in North America. By studying their historical background, their cultural and s
GER 166	Marx, Nietzsche, Freud 3 Credits	This course introduces the thought of three German-language writers (Karl Marx, Friedrich Nietzsche, and Sigmund Freud) who transformed the fields of philosophy, economics, psychology, and have made an immense impa
GER 175	Germanic Heroic and Medieval Literature in English Translation 3 Credits	In this course, students will become able to describe the complex cultural history of the German-speaking Middle Ages and its modern reception through analysis of literary and cultural production. The period between the Ge
GER 189N	German Film 3 Credits	A survey of German film from its beginnings to the present, with emphasis on historical, political, and cultural contexts. GER 189 German Film (3) (GH; GA; IL) This course is an introduction to German cinema, broadly defined
GER 190	Twentieth-Century German Literature in English Translation 3 Credits	GER 190, German Twentieth-Century German Literature in Translation (GH; IL; BA) offers an introduction to 20th-century literary texts written in Austria, Germany, and Switzerland, or by authors originally from these countries
GER 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GER 197E	Special Topics GN/GH 3 Credits	No description

GER 199	Foreign Study--German 3-6 Credits/Maximum of 6	Intermediate training in German language skills.
GER 200N	Contemporary German Culture 3 Credits	How do we make sense of Germany, the country's history, culture, politics, and economics during the twentieth century? In modern German history, periods of impressive social, political, economic, cultural, and intellectual a
GER 201	Conversation and Composition 4 Credits	Continuation of GER 003; emphasis on reading, writing, and conversational skills; course utilizes short literary selections, a concise novel, videos. GER 201 Conversation and Composition (4) IL Offered in the fall and spring s
GER 245	The Vikings 3 Credits	The Vikings will study the rise and proliferation of Viking culture and society during the Viking Age (c. 793 - c. 1066 CE). This course will examine Norse/Scandinavian culture including their social structure, political and econo
GER 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GER 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GER 299	Foreign Study--German 3-6 Credits/Maximum of 6	Advanced training in German language skills.
GER 301	Intermediate Speaking and Listening 3 Credits	Intensive practice in spoken German through readings, discussions and video. GER 301 Intermediate Conversation and Composition (3) (IL) German 301 is a continuation of the composition and conversation emphases of be
GER 302W	Intermediate Composition and Grammar 3 Credits	Continuation of oral and written practice in German with extensive work in composition. GER 302W Intermediate Conversation and Composition II (3)(BA) This course meets the Bachelor of Arts degree requirements. Germar
GER 308Y	German Business Communication 3 Credits	Development of German commerce and industry; extensive practice in the major forms of business communications such as business correspondence. GER 308Y German Business Communication (3) (IL) This course provid
GER 310	Introduction to the Study of German Literature 3 Credits	History, methods, and the terminology of literary interpretation and analysis in German.
GER 344	Intermediate German Culture 3 Credits	An overview of German culture from the Middle Ages to the present. Conducted in German. GER 344 Intermediate German Culture (3) (IL) This course will be a comprehensive overview of major events and figures in German
GER 399	Foreign Study--German 3-12 Credits/Maximum of 12	Advanced studies in German language and/or literature.
GER 401Y	Advanced Composition 3 Credits	Intensive practice in writing different text types in German. GER 401Y Advanced Composition (3) (IL) GER 401Y is the writing across the curriculum component of the German language sequence. After thorough discussion o
GER 408	Advanced German Business Communications 3 Credits	Study of German business organization, forms of business communications, business terminology; writing of reports and abstracts.
GER 411	The Teaching of German 3 Credits	Theory, methods, techniques, materials, bibliography; use of inter-active media; contributions of linguistics or psychology to language learning.
GER 412	Contrastive Analysis of Modern German and English 3 Credits	Structural comparison of the German and English grammatical systems: morphology, syntax, phonology.
GER 420	Genre 3-9 Credits/Maximum of 9	Special studies in a particular literary genre in German literature, such as lyrical poetry, drama, or narrative prose.
GER 430	History of the German Language 3 Credits	Development of German from its earliest stages, including historical and cultural aspects. GER 430 History of the German Language (3) (IL) This course provides an overview of the history of the German language from its ori
GER 431	History of German Literature and Culture I 3 Credits	Significant works of German literature before the mid-eighteenth century considered in their cultural context.
GER 432	History of German Literature and Culture II 3 Credits	Significant works of German literature from the mid-eighteenth century to the present considered in their cultural context.
GER 440	Seminar in German Culture 3-6 Credits/Maximum of 6	Seminar devoted to a special topic in the field of German culture and civilization.
GER 472	Romanticism 3 Credits	A study of both early and late romanticism, including such writers as Novalis, the Schlegels, E.T.A. Hoffmann, and Heine.
GER 489	Introduction to German Film History and Theory in Context 3 Credits	Introduces films in German since the 1960s and addresses issues relevant to German and European cultures and politics. GER 489 Introduction to German Film History and Theory in Context (3) This course focuses on Germ
GER 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GER 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GER 495	Internship 3-9 Credits/Maximum of 9	Supervised off-campus, non-group instruction including individual field experiences, practicums, or internships. Written and oral critique of activity required.
GER 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GER 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GER 499	Foreign Study--German 3-12 Credits/Maximum of 12	Advanced studies in German language, literature, and culture.
GLIS 101N	Globalization 3 Credits	This course provides a broad introduction to the topic of global studies. This course meets the Bachelor of Arts degree requirements.This interdisciplinary course explores how people and nations confront the phenomenon o
GLIS 102N	Global Pathways 3 Credits	This course meets the Bachelor of Arts degree requirements. This course introduces students to five pathways to thinking about global issues today: Global Conflict, Health & Environment, Culture & Identity, Wealth & Inequal
GLIS 310	Language Rights, Policy, and Planning 3 Credits	This is a course on language rights, policy, and planning from individual, group, inter-ethnic, and national perspectives. Linguistic minorities are a consequence of colonization by European powers in different regions of the gl
GLIS 400Y	Seminar in Global and International Studies 3 Credits/Maximum of 3	Capstone Seminar focusing on critical themes and the development of the senior thesis for Global Studies Majors. This interdisciplinary course will offer a seminar on some current event, issue, or phenomenon that involves a
GLIS 410	The Global Impact of Education 3 Credits	This course examines the global impact of education on human rights, health, economic development, political mobilization, religion, and environmental sustainability. The education revolution has significantly changed the w

GLIS 478	China and the World 3 Credits	This course examines China's economic reform and development and its engagement with the world since 1978. It pays close attention to the interplay of politics and economics. The course first examines the initiation and p
GLIS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
GLIS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
GD 1S	First-Year Seminar in Graphic Design 1 Credits	An orientation to the historical, social, and professional context of design and an exposure to a variety of ethical, philosophical, and topical ideas from the world of design.
GD 100	Introduction to Graphic Design 3 Credits	A beginning level graphic design course. Instruction touches on the practice, theories, history and processes of the graphic design industry. GD 100 Introduction to Graphic Design (3) (GA) GD 100 (GA) INTRODUCTION TO G
GD 101	Design Foundation 4 Credits	Design Foundation is a beginning-level studio course appropriate for students enrolled in a graphic design program. Through exercises and projects, students will use the elements and principles of design to convey informat
GD 102	Design Foundation 2 3 Credits	Design Foundation 2 continues a student's education in the fundamental practices of graphic design. Students develop greater facility with creative ideation, the fundamentals of visual communication, and the practical appli
GD 107	Graphic Design Studio - Components 4 Credits	GD107 Design Studio - Components is a beginning-level studio course appropriate for students enrolled in Graphic Design. The course serves as an introduction to analysis and form-making in graphic design through investi
GD 110	User Experience Design: Concepts and Principles 3 Credits/Maximum of 6	Students in this introductory course will study foundational concepts and methodologies in User Experience (UX) design and thinking. User experience (UX) design is the process designers use to create products that provide
GD 115N	Visualizing Information 3 Credits	The world is awash with complex, dynamic information. With the development of powerful technologies capturing vast amounts of data, the art of visually representing information in ways that increase understanding of comp
GD 200	Graphic Design Studio I 3 Credits	A beginning graphic design studio course. Instruction focuses on the practical and analytical process of creating graphic designs and their critical evaluation. GD 200GD 200 Graphic Design Studio I (3) This course is a begi
GD 201	Typography 4 Credits	GD201 Typography 1 is an intermediate-level studio course appropriate for students enrolled in a graphic design program. This course introduces the practical and analytical application of typography across a range of forma
GD 202W	The History of Graphic Design 3 Credits	A survey of graphic design, especially emphasizing influential movements, innovative designers and technological advances relevant to contemporary visual communication. GD 202 The History of Graphic Design (3) The Hist
GD 203	Typography 2 3 Credits/Maximum of 3	GD 203, Advanced Typography is a course that comprises the study and development of advanced knowledge and skills of typography. Specifically, it includes the study and use of type to accomplish broader knowledge an
GD 207	Graphic Design Studio - Products 4 Credits	Graphic Design Studio - Products is an intermediate-level studio course appropriate for students enrolled in a graphic design program. This course advances concepts and methodologies learned in GD101, GD107, and GD2
GD 210	User Interface Design and Prototyping 3 Credits/Maximum of 6	Students in this course will apply knowledge in User Interface (UI) design and practice designing and prototyping compelling visual interfaces for multiple platforms - from websites to physical spaces to the nuanced interacti
GD 211	Design Photo and Motion 4 Credits	Design Photo and Motion is a beginner-level course that introduces students to the technologies and problem-solving skills of photography and motion design. GD211 will explore the theories and methodologies of verbal an
GD 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
GD 296	Independent Study 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GD 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GD 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GD 300	Design Photography 4 Credits	GD 300 Design Photography (4) GD 300 is an intermediate design and photography course that explores the visual and conceptual relationship between typography and photography as it relates to the communication of info
GD 301	Experience Design Process + Methods 4 Credits/Maximum of 4	GD 301, Experience design process and methods, is an advanced graphic design studio class that provides graphic design students with an in-depth study of the intricate relationship between the professional graphic desig
GD 302	Applied Communication 4 Credits	Definition and concentrated involvement in problem/audience analysis, with emphasis on understanding symbol and image in evoking audience response. GD 302
GD 303	Applied Experience Design 4 Credits/Maximum of 4	Applied Experience Design, GD 303 explores digital technology as a medium graphic design. Topics include design expressed over time - both linear and nonlinear. The objectives for this course are to give graphic design stu
GD 304	Practical Communications 3 Credits	GD 304 Practical Communications (3) GD 304 is an advanced course that is intended to offer practical design experiences to graphic design students through assignments for various University and not-for-profit community
GD 307	Graphic Design Studio - Systems 4 Credits	Design practice is evolving-focusing less on physical things and more on the connections between them. Increasingly, design practice is concerned with nodes and links-networks, systems, and communities of systems. This
GD 308	Graphic Design Seminar 3 Credits	Graphic Design Seminar offers a theoretical and critical examination of contemporary and future-facing design issues. The course includes lectures and discussions of current design strategies and practices. Students will be
GD 310	Studio Apprenticeship 3-6 Credits/Maximum of 6	GD 310 is an advanced course that will offer pragmatic design experiences to graphic design students through direct involvement in the creative process of the designer-teacher in the studio environment.
GD 315	Humanizing Data 4 Credits	Humanizing data is an advanced-level studio course for majors and minors in graphic design, analyzing and visualizing data though aesthetic and humanistic approaches.
GD 320	Interaction Design 4 Credits	This class advances the concepts, technologies, and languages used to design and build modern interactive experiences learned in GD110 and GD210. GD320 will explore the visual aspects and structural flow of interface d
GD 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
GD 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GD 400	Time and Sequence 4 Credits	Development of visual sequence as replies to graphic design problems. GD 400
GD 401	Package Design 3 Credits	Orientation to packaging designs as it relates to the consumer, client, and to societal and environmental concerns. GD 401
GD 402	Senior Problems 4 Credits	GD 402, Senior Problems, allows the senior student to incorporate their knowledge and experience acquired from their years of experimentation, research, and critical thinking. The course focuses on the final preparation of t
GD 405	Minor Advanced Studio 3 Credits/Maximum of 3	This class introduces the concepts, technologies, and languages used to design and build publications, objects, and complex collaborative digital communications. GD405 provides Graphic Design Minors with an advanced-
GD 406	Minor Capstone Studio 3 Credits/Maximum of 3	A structured studio for Minors in Graphic Design culminating into a final self-authored project on a topic that engages each student's declared major. The Minor Capstone Studio applies each student's accumulated knowled
GD 407	Graphic Design Studio - Communities 4 Credits	Design Studio - Communities is an Advanced-level studio course appropriate for students enrolled in a graphic design major. Classes will focus on developing skills to conceive and execute projects for social change with a f
GD 409	Exhibition and Portfolio 4 Credits	An in-depth, advanced level course for students enrolled in the graphic design program. Students will prepare for the professional working environment by creating solutions to complex, multi-faceted, systems-based design
GD 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GD 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GD 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
GD 496	Independent Study 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GD 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
GD 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GREEK 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
GREEK 101	Introductory Ancient Greek 4 Credits	GREEK 101 is the first course in a two-semester introduction to ancient Greek, the language of Homer, Sophocles, Plato, and the New Testament. Students will begin to learn the grammar and vocabulary necessary for readi
GREEK 102	Intermediate Ancient Greek 4 Credits	GREEK 102 continues the work begun in GREEK101, which is prerequisite for enrollment. Students will continue to learn the grammar and vocabulary necessary for reading ancient Greek literature of different periods. During
GREEK 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

GREEK 203	Greek Reading and Composition 4 Credits	GREEK 203 is the third course in the introductory ancient Greek language sequence. The aim of this course is to help students increase their familiarity with forms and vocabulary, as well as gain confidence in their ability to r
GREEK 420	Greek Prose Authors 3-12 Credits/Maximum of 12	GREEK 420 is an advanced reading course in ancient Greek, which focuses on the writings of prose authors. The primary aim of the course will be to hone students¿ ability to read connected passages of Greek prose by a gi
GREEK 425	Greek Historians 3-6 Credits/Maximum of 6	GREEK 425 is a reading course in ancient Greek focusing on one or more of the major ancient Greek historians. The course is designed to advance the student's fluency in reading Greek prose, while at the same time enrichi
GREEK 430	Greek Poetry 3-6 Credits/Maximum of 6	GREEK 430 is an advanced reading course in ancient Greek poetry. The primary aim of the course will be to hone students' ability to read and appreciate Greek poetry. In addition, students will read and evaluate secondary s
GREEK 440	Greek Drama 3-6 Credits/Maximum of 6	GREEK 440 is an advanced reading course in ancient Greek Drama (tragedy and comedy). The primary aim of the course will be to hone students' ability to read and appreciate Greek drama. In addition, students will read an
GREEK 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GREEK 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
GREEK 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GREEK 496H	Independent Studies (Honors) 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
GREEK 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HHD 100H	Honors Seminar on Longevity, Health, and Human Development 1 Credits	This course aims to provide students with an overview of the impact the growth in human longevity is having on society, viewed through the lens of current research in the fields of health and human development. Students w
HHD 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HHD 200N	Addiction Science to Society 3 Credits	Addiction is commonly defined as set of compulsive behaviors that cannot be stopped despite negative consequences. The term itself is controversial and defined differently by various disciplines. This has resulted in skewe
HHD 294	Research in HHD 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis
HHD 295	Internship in Health and Human Development 1-18 Credits	Supervised internship, field experience, or practicum related to student career objectives.
HHD 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HHD 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HHD 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HHD 401	Women's Leadership Initiative: Leadership Concepts and Competencies I 2 Credits	HHD 401 is the first semester of the year-long program for students selected to participate in the Women's Leadership Initiative (WLI). The course designed to work in concert with WLI activities to support students in their de
HHD 402	Women's Leadership Initiative: Leadership Concepts and Competencies II 2 Credits	HHD 402 is the second semester of the year-long program for students selected to participate in the Women's Leadership Initiative (WLI). The course designed to work in concert with WLI activities to support students in thei
HHD 410	Clinical Research Practice 3 Credits	As new molecules progress from the laboratory to the bedside, the clinical trials enterprise needs a fresh generation of professionals with knowledge of the application of research applied to human health and disease; profes
HHD 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects on an individual or small-group basis.
HHD 495	Internship in Health and Human Development 1-18 Credits	Approved experiential learning related to student career objectives
HHD 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HHD 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HHD 497I	Intergenerational Communication 3 Credits	How can a person grow to become more truly themselves? How do our habits inform our future? This course examines current research on happiness, aging, and well-being alongside the lived experience of older adults. Tog
HHD 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HHD 499H	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HLHED 415	Planning and Developing Health Education Programs 3 Credits	Premises and strategies for planning, implementing, and evaluating wellness programs in corporate, hospital, and community agency settings.
HLHED 420	Development of Stress Management Programs for Health Education 3 Credits	Planning, development, and implementing strategies for stress management programs for health education professionals in school, community, and corporate settings.
HLHED 443	Alcohol and Drug Education 3 Credits	Principles of integration and coordination of alcohol and drug education programs for health education and other social service professions.
HLHED 456	Advanced Techniques in School and Community Health Education 3 Credits	Public health, mental health, nutrition, dental school health, physical education, accident prevention, health teaching; projects, consultation, visitation, discussions, and resources.
HHUM 110N	Health, Illness, and the Human Condition 3 Credits	This survey course explores the human experience of health and illness from a combined social/behavioral science and humanities perspective. Topics may include the following: the body in art, science, and history; models
HHUM 220N	Ethics, Society, and Science Fiction 3 Credits	This inter-domain (GH and GS) course will introduce students to the application of technology-ethics and bioethics, as well as the humanities (especially health and medical humanities) and the social sciences, through the le
HHUM 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HHUM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HHUM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HHUM 494	Research Project 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small-group basis.
HHUM 495	Internship 1-12 Credits/Maximum of 12	Supervised off-campus, nongroup instruction including field experiences, practica, or internships appropriate to the Health Humanities major.
HHUM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HPA 57	Consumer Choices in Health Care 3 Credits	HPA 57 is designed to provide students with an understanding of the breadth of decisions related to health and health care in the United States. HPA 57 introduces students to the consumers' role in health related decisions,
HPA 100	Research Careers in Health Policy and Administration 1 Credits	HPA 100 is designed to provide students with an introduction to research as a potential career path in health policy and administration. This course will give students an overview of the research process, the disciplines that c
HPA 101	Introduction to Health Services Organization 3 Credits	Examination of the social, political, historic, and scientific factors in the development and organization of health services.
HPA 123S	Exploring Health Policy and Administration 1 Credits	This course gives an introduction to some of the major academic topics in the Department of Health Policy and Administration with the aim to meet the Penn State first-year seminar goal of orienting students to the scholarly
HPA 200	An Introduction to Data in the Health Care System 3 Credits	This course examines the broad topic of data and healthcare decisions, particularly how to be an astute consumer of data about health, the health care system, and health policy. To work in the health sector means facing a c
HPA 210	Health Care Payment 3 Credits	This course covers basic concepts and issues related to health insurance and payment of health care services in the United States. Students learn insurance related concepts including factors that influence the purchase of i
HPA 211	Financial Decisions in Health Care Organizations 3 Credits/Maximum of 3	An introduction to financial and economic information to make decisions in health care organizations Healthcare Finance is at the core of issues surrounding quality healthcare delivery. It involves wisely balancing the need to

HPA 295	Field Experience 1-3 Credits/Maximum of 3	Field Experience
HPA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HPA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HPA 301	Health Services Policy Issues 3 Credits	This course provides students with a basic framework for health policy analysis and examines major strands of U.S. health policy. Detailed consideration and discussion are given to the relationship of national policy to the pl
HPA 301H	Health Services Policy Issues 3 Credits	H P A 301H uses a case study method to examine health services policy issues and emphasizes the skills needed to analyze and communicate knowledge about health services policy. The chief goals of the course are to bro
HPA 301W	Health Services Policy Issues 3 Credits	Analysis of major issues in health services delivery in hospitals, medical practice, public health, mental health, and health professional education. This course provides students with a basic framework for health policy analysi
HPA 310	Health Care and Medical Needs 3 Credits	HPA 310 introduces students to the use of medical terminology in the context of the structure of the human body, functions of its systems, and disease. Disease processes include development, progression, diagnosis, treatm
HPA 310H	Health Care and Medical Needs 3 Credits	Health care from an individual, family, and community standpoint illustrated with specific diseases and health problems.
HPA 311	Population Health and Healthcare 3 Credits/Maximum of 3	This course covers fundamental theories, concepts, issues, and strategies related to a population health approach to health and health services
HPA 332	Health Systems Management 3 Credits	Health Systems Management provides you with an overview of how health care institutions are organized and governed, the role of the management staff, and the management systems designed for their efficient and effecti
HPA 332H	Health Systems Management 3 Credits	Introduction to and analysis of managerial roles and practices in health service organizations.
HPA 390	Professional Development in Health Policy & Administration 3 Credits	Development of personal understanding and professional skills to prepare students for future employment or study in health policy and administration. HPA 390 Professional Development in Health Policy and Administration T
HPA 390W	Professional Development in Health Policy & Administration 3 Credits	Development of personal understanding and professional skills to prepare students for future employment or study in health policy and administration. H P A 390 Professional Development in Health Policy and Adiminstratio
HPA 395	Field Experience in Health Policy and Administration 1-13 Credits/Maximum of 13	Professional field experience providing opportunities to apply skills and knowledge in health care setting.
HPA 401	Comparative Health Systems 3 Credits	Comparative analysis of health services in selected developed and developing countries. H P A 401 Comparative Health Systems (3) (IL) In HPA 401 students will examine health and health services delivery systems as comp
HPA 401H	Comparative Health Systems 3 Credits	Comparative analysis of health services in selected developed and developing countries.
HPA 410	Principles of Public Health Administration 3 Credits	This course is an overview of issues pertaining to public health administration and the uses of data analytics in population health. Course content provides the foundational understanding for the organization and function of p
HPA 420	Principles of Managed Care 3 Credits	Survey of managed health care, including history, typology, current issues, management challenges, and impacts on patients, providers, and special populations. H P A 420 Principles of Managed Care (3) H P A 420 is desig
HPA 430	Health Care Leadership 3 Credits	The objectives of HPA 430 are: (1) to help students learn about their own strengths and weaknesses as leaders; (2) to give students an opportunity to build their skills in small group leadership; and, (3) to explore the leadersh
HPA 433	Administration of Hospital and Health Service Systems 3 Credits	Analysis of administrative structures and interorganizational arrangements among hospitals and other health care organizations.
HPA 435	Safety Net Health Care 3 Credits	This course is designed to provide students with knowledge about what safety net health care is, how it is delivered and financed, and current policy and practice initiatives related to safety net care. A safety net can generally
HPA 438	Culturally Competent Health Services for Diverse Populations 3 Credits	This course examines the broad concept of diversity and its impact on health care, particularly on rendering services to patients from diverse groups and about the challenges health care professionals face serving diverse po
HPA 440	Principles of Epidemiology 3 Credits	This course is designed to provide students with a basic understanding of the principles of Epidemiology and to familiarize students with the methods and applications of epidemiology to understanding the bases for heterog
HPA 442	Long-Term Care Management 3 Credits	Management and policy issues for institutional, community, and home settings for chronic care services.
HPA 443	Nursing Home Administration 3 Credits	This course provides students who are interested in a career in long-term care to gain an operational knowledge of managing skilled nursing facilities. After mastering the concepts of skilled nursing management, the student
HPA 444	Aging Policy in the United States 3 Credits	The United States is an aging nation and in the coming decades the number of elders in the United States is expected to grow dramatically. Policymakers faced with growing concern about containing the cost and scope of g
HPA 445	Health Economics 3 Credits	Economic analysis of U.S. health care system; planning, organization, and financing; current public policy issues and alternatives.
HPA 446	Economics and Health In Low- and Middle-Income Countries 3 Credits	In this course, students will learn about health systems and policies in low- and middle-income countries (LMIC). The course begins by exploring the link between health and economic development in LMICs. The majority of
HPA 447	Financing Health Care 3 Credits	This course is to prepare health care administrators for the responsibilities involved in maintaining a well-managed health care organization. The course covers concepts in managerial accounting and finance that are critical t
HPA 450	Healthcare Policies and Politics 3 Credits	Survey of health care's political contexts: formulation, implementation, and modification stages of policy process; politics of private interests (associations) at national and state levels.
HPA 454	Health Care Professional Communication 3 Credits	This course will focus upon the analysis and application of professional communication principles and practices for successful participation in health care organizational and occupational activities. The changing health care i
HPA 455	Strategic Planning and Marketing for Health Services 3 Credits	The history, principles, techniques, and methodologies of health services planning and marketing are studied and students learn how to plan for new or changed health services, programs, or facilities. Students will examine t
HPA 460	Human Resource Management in Health Care Organizations 3 Credits	Foundations of human resource management applied to health care organizations, including hospitals, long-term care facilities, and community health organizations.
HPA 470	Health Care Information Management 3 Credits	This course introduces information systems terminology, data structures, software applications, and their management functions in health services organizations. H P A 470 Health Care Information Management (3) This cour
HPA 475	Health Care Quality 3 Credits	This course covers the basic principles and techniques of quality management in healthcare:including the definition, measurement, and uses of data for improving the quality of health and health services. The course also cov
HPA 490	Physician Practice Management 3 Credits	Development of skills needed to effectively manage physician practices. Practice management may be defined as the body of knowledge and skills necessary to manage the multiple elements of a specific practice of a phys
HPA 494	Undergraduate Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis. HPA 494 is a mentored investigation conducted by undergraduates that seek to make a scholarly contribution. HPA 494 is de
HPA 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Independent study related to student's interests directed by a faculty supervisor and culminating in the production of a thesis.
HPA 495	Field Experience 1-12 Credits/Maximum of 12	Field Experience
HPA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HPA 496H	Independent Studies 3 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HPA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HPA 499	Foreign Study 1-3 Credits/Maximum of 3	Study of health care systems and practices in selected foreign countries.
HEBR 1	Basic Modern Hebrew I 4 Credits	An introduction to modern Hebrew in its written and spoken forms; oral and aural work stressed.
HEBR 2	Basic Modern Hebrew II 4 Credits	Continued study of grammar; emphasis on improving oral-aural facility, with increased attention to reading and writing.
HEBR 3	Intermediate Modern Hebrew 4 Credits	Grammar, reading, composition, and oral and aural exercises.
HEBR 10	Jewish Civilization 3 Credits	This course explores the life of the Jewish people from Biblical times on, emphasizing cultural, religious, and institutional developments. HEBR 10 / HST 10 Jewish Civilization (3) (GH;IL)(BA) This course meets the Bachelor of
HEBR 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
HEBR 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HEBR 151	Introductory Biblical Hebrew 3 Credits	Fundamentals of Biblical Hebrew grammar, syntax, and vocabulary. J ST (CAMS/HEBR) 151 Introductory Biblical Hebrew (3) The aim of CAMS/J ST/HEBR 151 is to introduce students to the fundamentals of Biblical Hebrew
HEBR 152	Intermediate Biblical Hebrew 3 Credits	Intermediate study of Biblical Hebrew grammar, syntax, and vocabulary. CAMS (JST/HEBR) 152 Intermediate Biblical Hebrew (3)(BA) This course meets the Bachelor of Arts degree requirements. CAMS/JST/HEBR 152 contin
HEBR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
HEBR 199	Foreign Study--Basic Hebrew 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

HEBR 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practicums, or internships.
HEBR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HEBR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
HEBR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HEBR 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
HEBR 399	Foreign Study--Intermediate Hebrew 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HEBR 401	Advanced Hebrew--Conversation Emphasis 3-6 Credits/Maximum of 6	Development of oral proficiency through discussions focusing on issues in contemporary Jewish culture.
HEBR 402	Advanced Hebrew--Reading Emphasis 3-6 Credits/Maximum of 6	Readings in representative works of traditional and modern literature; practice in composition; study of aspects of Jewish culture.
HEBR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HEBR 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HEBR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects including research and design which are supervised on an individual basis and which fall outside the scope of formal courses.
HEBR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
HEBR 499	Foreign Study--Advanced Hebrew 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HIED 200	Leadership, Communication & Outreach Ambassador 1-3 Credits	The Leadership, Communication & Outreach Ambassador course will provide students an opportunity to have a deeper and more impactful interaction with their department, school, college and university. The students will g
HIED 302	The Role of the Resident Assistant: Theory and Practice 3 Credits	An analysis of the various roles of the resident assistant, including interpersonal facilitator, disciplinarian, program developer, and activities facilitator.
HIED 303	Leadership Development through Orientation 3 Credits	Assisting new students and their parents and family members at New Student Orientation goes far beyond campus tours and providing directions. Today's mentors are charged with teaching new students about issues relate
HIED 396	Individual Studies 1-9 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
HIED 397	Special Topics 1-9 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HIED 490	Exploration of Careers in Higher Education 3 Credits	Foundation of graduate study in the field of higher education. HI ED 490 Master's Professional Seminar (3) This course is an introduction to higher education as a field, and as an orientation to graduate study. Early sessions
HIED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HINDI 1	Level One Hindi A 4 Credits	This is an introductory course in Hindi that presents the Devanagari script, elementary grammar and sentence structure.
HINDI 2	Level One Hindi B 4 Credits	This intermediate level course seeks to impart functional literacy in oral and written expression in Hindi to students.
HINDI 3	Level Two Hindi A 4 Credits	This is an intermediate level course in Hindi that seeks to improve student's skills in oral and written expression.
HINDI 110	Intermediate Hindi 4 Credits/Maximum of 4	Hindi 110 teaches basic intermediate to advanced functional proficiency (ACTFL Standards) in reading, writing, and speaking Hindi.
HIST 1	Western Civilization I 3 Credits	HIST 1 examines the development of western civilization, beginning with the ancient world of the Mediterranean, Europe, and Mesopotamia, and continuing through Early Modern Europe, which involves the Reformation, the
HIST 2	Western Civilization II 3 Credits	This survey examines the history of "Western" civilization from the period of Early Modern Europe to the present. The development of social, political, and religious movements in Europe and the development of European col
HIST 2H	Western Civilization II 3 Credits	This honors-level survey examines the history of "Western" civilization from the period of Early Modern Europe to the present. The development of social, political, and religious movements in Europe and the development of
HIST 3	The American Nation: Historical Perspectives 3 Credits	HIST/AMST 3 allows for faculty and students to work in a small setting in order to explore the history of the United States through a detailed interdisciplinary examination of a particular theme, institution, or person in America
HIST 5	Ancient Mediterranean Civilizations 3 Credits	Survey of the history and cultures of ancient Mediterranean civilizations in Mesopotamia, Egypt, Syro-Levant, Anatolia, Greece, and Rome. CAMS (HIST) 5 Ancient Mediterranean Civilizations (3) (GH;IL) This course provides a

HIST 6N	History and Weather: How Weather Played an Instrumental Role in Great World Event 3 Credits	In HIST 6N / METEO 6N, we'll survey how weather and history are integrated throughout time. Moving from past to present, the course will use case studies to navigate historical moments where weather shaped the outcome
HIST 10	World History to 1500 3 Credits	World Civilizations to 1500 is an introductory survey of the world's major civilizations from the rise of the earliest human communities to the age of global expansion in the sixteenth century. The emphasis will be on the distinc
HIST 11	World History since 1500 3 Credits	World Civilizations since 1500 is an introductory survey of the world's major civilizations from the age of global expansion in the sixteenth century. The emphasis will be on the distinctive and interconnected histories and cultu
HIST 12	History of Pennsylvania 3 Credits	The course offers a chronological and topical survey, emphasizing immigration of diverse ethnic groups and religious, political, economic, and social developments, including industrialization and urbanization. This survey of t
HIST 20	American Civilization to 1877 3 Credits	An historical survey of the political, social, and economic development of America from colonial settlement through the Civil War and Reconstruction. This course meets the Bachelor of Arts degree requirements. HIST 20 pro
HIST 20Y	American Civ to 1877Y 3 Credits	This course offers a writing-intensive historical survey of the political, social, and economic development of America from colonial period through the Civil War and Reconstruction, including the history of American slavery, th
HIST 21	American Civilization Since 1877 3 Credits	An historical survey of the American experience from the emergence of urban-industrial society in the late nineteenth century to the present. This course meets the Bachelor of Arts degree requirements. HIST 21 seeks to intro
HIST 66	Survey of British History 3 Credits	This course is a survey of British history, which chronicles the origins and development of Great Britain from its Romano-Celtic past to the present. The course focuses on the long history of Britain, emphasizing its various an
HIST 83	First-Year Seminar in History 3 Credits	HIST 83, students are expected to master the subject material of this seminar, as well as to acquire basic skills useful to the study of the humanities and Liberal Arts. The topics chosen for these seminars will acquaint studen
HIST 100	Ancient Greece 3 Credits	The Greek world from the earliest Aegean cultures to the death of Alexander the Great and the beginnings of Hellenistic civilization. CAMS 100 / HIST 100 Ancient Greece (3) (GH;IL)(BA) This course meets the Bachelor of Arts
HIST 101	The Roman Republic and Empire 3 Credits	History of the Roman Republic and Empire from the origins of Rome to the disintegration of the Empire. CAMS 101 / HIST 101 The Roman Republic and Empire (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree r

HIST 102	Ancient Israel 3 Credits	Ancient Israel names the land and people of the Hebrew Bible (Old Testament), and it provides important background for the Jewish, Christian, and Muslim traditions. Yet, ancient Israel remains difficult to approach historically
HIST 103	The History of Madness, Mental Illness, and Psychiatry 3 Credits	More than perhaps any other set of human afflictions, the phenomena that have gone under the names of "madness," "insanity," "lunacy," and "mental illness" have historically provoked a wide variety of often contradictory r
HIST 104	Ancient Egypt 3 Credits	This course will track the history of Egypt, the first nation state in the world, covering a time span of over 3,000 years. The investigation of the history will focus primarily on the major players (i.e. the pharaohs themselves) anc
HIST 105	The Byzantine Empire 3 Credits	This course examines the development and history of the Byzantine Empire from the decline of the Roman Empire to the fall of Constantinople to the Ottomans in 1453. As the Roman Empire disintegrated, the West slowly de
HIST 106	Early Modern Empires of Islam: The Ottomans, Safavids, and Mughals 3 Credits	This course examines the history of the Ottoman, Safavid, and Mughal empires, from their origins to the Safavid Collapse, a historical time period covering approximately 1300 to 1722. Each week, the class will focus on a ma
HIST 107	Medieval Europe 3 Credits	HIST 107 / MEDVL 107 examines the history of Europe from c. 300-c. 1400 CE. The many themes of this course include: the development of political, judicial and diplomatic institutions; the role of religion, especially that of C
HIST 108	Crusades: Holy War in the Middle Ages 3 Credits	The course examines the social and political history of the "Crusades", one form of holy war in medieval Europe, the Levant, and North Africa, focusing primarily on the period from the 11th through the 14th centuries, but als
HIST 109	Introduction to U.S. Environmental History 3 Credits	This course explores the major themes of U.S. Environmental History, examining changes in the American landscape, the development of ideas about nature in the United States, and the history of U.S. environmental activisn
HIST 110	Introduction to Global Environmental History 3 Credits	This course provides a broad introduction to the history of human relationships with nature throughout the world. The human relationship with the natural environment the world of plants, animals, and microbes, of air, water, a
HIST 111	Introduction to U.S. Food History 3 Credits	This course is a historical analysis of agriculture and food production in the United States. It includes examination of the history of food production and consumption patterns, the food industry, food marketing, and the politic
HIST 112	Introduction to Public History 3 Credits	Practicing as a historian outside traditional classrooms opens up worlds of diverse professional opportunities. This course is designed to introduce students to that broad world, allowing for learning and experimentation. The

HIST 113	Baseball in Comparative History 3 Credits	This course offers a comparative survey of baseball history from its origins in the nineteenth century to the present. The course uses the broad cultural and geographic diffusion of baseball over time to examine the diverse ar
HIST 114N	Historical Perspectives on HealthCare Innovations 3 Credits	This course will explore how historical context influenced major innovators in health care. It will pursue the general education objectives of 1) integrative thinking, and 2) social responsibility and ethical reasoning. GH learning
HIST 115	The American Jewish Experience 3 Credits	Chronological and topical survey of the story of Jewish life in America. We will trace the social, religious, cultural, and political developments in the Jewish community from the Colonial Period to the present. Topics to be cove
HIST 116N	Family and Gender Roles in Modern History 3 Credits	This course explores the transformation of modern families in the "Western" world, beginning with the basic context and elements of families as early as sixteenth-century Europe and Colonial America. The course has a prim
HIST 117	Women in United States History 3 Credits	HIST 117 / WMNST 117 provides students with an overview of the most important historical developments in the history of women in the United States, including women's actual experiences as members of a class, a race, a
HIST 118	Modern Jewish History 3 Credits	Modern Jewish history is a complex and fascinating story. Some scholars depicted it as a long period of suffering and isolation that culminated in the Holocaust and only ended with the founding of the state of Israel. In recer
HIST 119	Gender and History 3 Credits	Survey of the development of gender roles in Western societies from the prehistoric era to the early modern period.
HIST 120N	History of Modern Europe since 1789 3 Credits	This course traces the history of modern Europe, beginning with a brief contextual background of the French Revolution and the Napoleonic era. The course then focuses primarily on the political, economic, and social develo
HIST 121	History of the Holocaust 1933-1945 3 Credits	This course focuses on the history and historiography of the Holocaust from 1933-1945. In addition to cultivating intellectual skills, such as critical analysis and concise presentation, the primary purpose of this course is to pr
HIST 122	History of Science I 3 Credits	The main goal of this course is to think through and understand major developments, ideas and issues in natural philosophy. "Natural philosophy" is the premodern term for science. The term "science" began to acquire its m
HIST 123	History of Science II 3 Credits	A history of science and culture from the scientific revolution to the present. HIST 123 examines the intellectual, social, and cultural history of science from the Scientific Revolution to the present. The course covers a range o
HIST 124	History of Western Medicine 3 Credits	This course explores the history of health, illness, and medicine in western society from Ancient Egypt through the modern world. Relying on both primary and secondary sources, the course examines major developments in

HIST 125N	History of Infectious Disease and Epidemiology 3 Credits	Infectious diseases once thought to be nearly eradicated have seen a resurgence in recent years. The majority of the cases arose from people who deliberately chose not to vaccinate their children against these disease. Ever
HIST 127	Introduction to U.S. Latina/o History 3 Credits	This course provides an interdisciplinary introduction to the study of Latinas and Latinos in the United States. The course includes a historical overview of the major events in the U.S. Southwest, Mexico, the Caribbean, and C
HIST 128N	Cultural Perspectives on Mathematics 3 Credits	This course will investigate the development of mathematical thought in multiple Afro-Eurasian cultures from the Bronze Age through the early medieval period, including Mesopotamia, Egypt, Greece, India, China, and the Isl
HIST 129N	Chocolate Worlds 3 Credits	This course will examine the "world" of chocolate throughout human history. First cultivated by the ancient peoples of the Americas and then manufactured by Europeans and Pennsylvanians alike, chocolate has played a pri
HIST 130	Introduction to the Civil War Era, 1848 through 1877 3 Credits	Survey of the causes and consequences of America's deadliest conflict, the Civil War, from the end of the U.S.-Mexican War in 1848 through the end of Reconstruction in 1877. This course meets the Bachelor of Arts degree
HIST 130H	Introduction to the Civil War Era, 1848-1877 Honors 3 Credits	Survey of the causes and consequences of America's deadliest conflict, the Civil War, from the end of the U.S.-Mexican War in 1848 through the end of Reconstruction in 1877. HIST 130H is an honors course surveying the A
HIST 131N	Slavery, the Civil War, and Cinema 3 Credits	This course provides a general introduction to two very different modes of thinking about race and slavery in the United States between the 1770s and the 1860s. The first half of the class will present historians' interpretation
HIST 134	Great Britain and Ireland in the Early Modern World 3 Credits	This course provides an interdisciplinary introduction to the study of Latinas and Latinos in the United States. The course includes a historical overview of the major events in the U.S. Southwest, Mexico, the Caribbean, and C
HIST 139	The World at War: 1914-1918 3 Credits	This course offers a global history of World War One (WW I), allowing students to study not only military and political elements of the war, but also what this conflict meant for entire societies. Attention will be paid to a variety
HIST 140	The History of the Israel-Palestine Conflict (1917-Present) 3 Credits/Maximum of 3	This course covers the origins of the Israeli-Palestinian conflict and how the issues at stake changed over time, up to the present day. The course situates the conflict in the history of the Middle East and the larger context of
HIST 141	Medieval and Modern Russia 3 Credits	This course is an introductory survey, including political, social, economic, and cultural development of Kievan, Muscovite, and Imperial Russia. Tracing the history of Russia from the ninth to early twentieth century, this cours

HIST 142N	History of Communism 3 Credits	This course examines the development of communism, one of the most powerful ideologies to have developed in modern history. This course first explores the writings of Marx and his advocates, notably Engels and Lenin, i
HIST 143N	History of Fascism and Nazism 3 Credits	This course studies the developments of right-wing totalitarianism in the twentieth century with special emphasis on Fascist Italy and Nazi Germany, which provided the roots for fascist developments in the modern world. Th
HIST 144	The World at War: 1939-1945 3 Credits	History 144 provides an in-depth study of World War II, which brought many new aspects to modern warfare: civilians were the majority of casualties, deliberate air attacks were made on cities, research brought the advent of
HIST 145N	The Holocaust and Human Rights 3 Credits	This inter-domain course integrates historical (GH) study of the Holocaust with sociological (GS) perspectives on the Holocaust and human rights. Topical content begins with historical antisemitism ("the longest hatred") and
HIST 148	History of Pennsylvania State University 3 Credits	This course examines the complex history of Penn State. The time period covered extends from mid-19th century origins as the Farmers' High School to the highly complex, multi-faceted, modern "research university" of the
HIST 150	America in the 1960s: An Introduction 3 Credits	This course offers an introduction to the history of the United States in the 1960s. The dual goals of this course are to instill a particular body of knowledge - in this case, America in the 1960s, and to provide students with to
HIST 151N	Technology and Society in American History 3 Credits	This course examines the development of technology in the United States from the colonial period to the present, and places into a historical context the reception and influence of these technological developments on the s
HIST 152	African American History 3 Credits	Chronological and topical survey of the history of African Americans from the colonial period to the early twenty-first century. This course covers major themes in African American history including the societies and cultures c
HIST 153	Native American History 3 Credits	HIST 153 provides students with an overview of the most important historical developments in the history of America's Native people, including first contact with Europeans, diplomacy and war, assimilation and cultural tradit
HIST 153Y	The Indian in North America 3 Credits	A survey of the American Indian from prehistory to the present.
HIST 154	History of Welfare and Poverty in the United States 3 Credits	History of care of the impoverished (emphasis on gender, race, nationality, age of poor, and welfare givers), 18th century to present.

HIST 155	American Business History 3 Credits	This course examines major developments in the history of modern American business and industry from the colonial period to the present. History 155 introduces students to a number of the main themes, concepts, and ev
HIST 156	History of the American Worker 3 Credits	A study of the American worker from the preindustrial era to the present.
HIST 157	Railroads and American Society 3 Credits/Maximum of 3	HIST157 shows that, without railroads, the United States would not have become the United States. It provides a panoramic view of 200 years, from the earliest rail lines to the current day and shows how the rail industry affe
HIST 158	History of American Immigration 3 Credits	HIST 158 examines the immigrant experience in North America since 1607. The course explores the various ways in which immigrants of diverse backgrounds experienced life in British North America and the United States, a
HIST 159	History of the FBI 3 Credits	Chronological survey of the History of the FBI since its founding in 1908, focused on the evolution of Federal law enforcement, bureaucracy, the increasing power of the Executive branch, the targeting of various minority grou
HIST 160	American Naval History 3 Credits	Introduction to the role of the United States Navy in the defense, diplomacy, commerce, and scientific development of the nation.
HIST 161	The Battle of Gettysburg in American Historical Memory 3 Credits	HIST/AMST 161 examines the history of the Battle of Gettysburg, as well as the political and social factors that have shaped perceptions of the Battle of Gettysburg as one of the Civil War's decisive battle and as a national s
HIST 162N	The Pursuit of Happiness in American Life: Historical Literature and Modern Practice 3 Credits	When Thomas Jefferson elevated one pursuit to stand with life and liberty as inalienable rights, he eschewed others. The Declaration of Independence features the pursuit of happiness rather than that of amusements, consu
HIST 163	Asian History Through Film 3 Credits	This course explores Asian histories through film. We will watch and analyze Asian films for the light they cast on numerous problems of modern life and historical interpretation in selected Asian countries: How have Asians d
HIST 164	The History of Brazil 3 Credits	This course will study the history of Brazil, the only Portuguese-speaking nation in Latin America, from the colonial to the present period. We will examine Brazil's transformation from Portuguese colony to the seat of a ninete
HIST 165	Islamic States, Societies and Cultures c. 600-1500 3 Credits	This course introduces students to the history and culture(s) of the Islamic world from c. 600-1500. The course develops a historical framework for understanding developments in religious and legal thought and practice, scie
HIST 166	History of Sexuality 3 Credits	WMNST/HIST 166 History of Sexuality (3) (GH;US)This is a 100-level course on the history of sexuality, spanning several centuries and a wide range of contexts. The study of sexuality offers a particularly good lens for develo
HIST 169	The Indian Ocean World 3 Credits	The Indian Ocean has been a zone of human interaction for several millennia facilitating the circulation of individuals, ideas, commodities and technologies from the Mediterranean and Persian Gulf regions to as far as Southe

HIST 170	South Asia to 1500 3 Credits	This course will introduce students to major themes in the history of ancient and medieval South Asia, a region that is now made up of the nation-states of Bangladesh, Bhutan, India, the Maldives, Nepal, Pakistan and Sri La
HIST 172	Introduction to Japanese Civilization 3 Credits	This course surveys the development of civilization in Japan from ancient times to the present. Among the key goals of this course is to discuss what is distinctive about "Japanese civilization." As a survey of Japan it include
HIST 173	Vietnam in War and Peace 3 Credits	This course examines the long history and culture of Vietnam with a focus on Vietnam's anti-colonial and independence movements of the 20th century. Among the topics covered are Vietnam under French colonial rule, the
HIST 174	East Asia to 1800 3 Credits	This course provides students with an overview of the most important historical developments and external relations of China, Japan and Korea from ancient times to the end of the eighteenth century. As a comparative surve
HIST 175	East Asia since 1800 3 Credits	This course is a comparative survey of the internal developments and external relations of China, Japan and Korea since the early 1800s. Topics include interaction with the West, internal rebellions and reforms, the importanc
HIST 176	Survey of Indian History 3 Credits	Survey of cultural, institutional, and political history from ancient times to the present. HIST 176 Survey of Indian History (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. This course surveys the hi
HIST 177	Rise of Modern Southeast Asia 3 Credits	This course looks at Southeast Asia from the rise of early empires to the present. Beginning with the great empires of Southeast Asia this course surveys the rise of Southeast Asian politics, culture and society before examini
HIST 178	Latin-American History to 1820 3 Credits	This course examines the history of Latin America from c. 1450 to 1820, a period encompassing Iberia and the New World before and after the conquest; the course is a survey of three centuries, from the initial encounter on
HIST 179	Latin-American History Since 1820 3 Credits	This course examines the history of modern Latin America from the period of independence in the early nineteenth century until the present day. Students will learn about the geographic and political development of the regio
HIST 180	Ancient Warfare 3 Credits	Historical survey of the evolution of warfare in the ancient Mediterranean region from prehistoric times to the Later Roman Empire. CAMS 180 CAMS (HIST) 180 Ancient Warfare (3) (GH;IL) Warfare has occupied a central plac
HIST 181	Introduction to the Middle East 3 Credits	The course offers a survey of the history of the Middle East from the rise of Islam to the present day. The course introduces students to structures of power, society, and economy in three distinctive periods: 1) the rise of Islar
HIST 182	Asian Trade: Economy, Industrialization and Capitalism in Asia 3 Credits	An historical overview of economy, industrialization, globalization and capitalism in Asia from the 16th century to present. ASIA (HIST) 182 Asian Trade: Economy, Industrialization and Capitalism in Asia (3) (GH;IL)(BA) This co

HIST 183	Gender, Family, and Society in East Asia 3 Credits	This course tracks the changes in East Asian gender roles, relationships, and family life from 1800 to the present, placing private life at the center of the history of China, Japan, and Korea. Among the topics covered are the e
HIST 184	Society and Culture in the Pacific War 3 Credits	This course examines will explore the origins, nature, and consequences of World War II in the Pacific. Moving beyond the common American focus on the war as a U.S.-Japanese conflict, it will explore the different nations,
HIST 186	The Silk Roads 3 Credits	Taking cross-cultural communication and connectivity as its central themes, this course explores the central role that the silk roads and Indian Ocean maritime routes have played throughout Eurasian history. The course prov
HIST 187	Global Taiwan 3 Credits/Maximum of 3	This course examines the historical, cultural, and ethnic dimensions of Taiwan over several centuries to the present day. Taiwan's rich history and important economic role in contemporary East Asia clashes with its exclusion
HIST 188	Tibet: People, Places and Spaces 3 Credits	Few places generate as much curiosity, interest, or controversy, in the Western mind than Tibet. This course examines Tibet from a variety of perspectives from Tibet's political unification under a single ruler in the seventh ce
HIST 190	The Middle East Today 3 Credits	This course introduces students to the peoples and places of the contemporary Middle East. The course engages students in discussion of themes that are pertinent to the region and to contemporary issues, including demo
HIST 191	Early African History 3 Credits	The course is an introduction to the history of Africa south of the Sahara from the origins of humankind to roughly 1750 with a focus on common themes in the cultural and historical development of African societies. Themes
HIST 192	Modern African History 3 Credits	This course offers an overview of the history of Africa from 1750 to the present. The course introduces students to the diversity of Africa's geography, demography, and history and investigates the experience of modern histo
HIST 192H	Modern African History 3 Credits	This Honors course offers an overview of the history of Africa from 1750 to the present. The course introduces students to the diversity of Africa's geography, demography, and history and investigates the experience of mode
HIST 193	Modern Iran 3 Credits	This course covers the history of modern Iran from the late nineteenth century to the present day. The course examines significant events and historical trends with attention to local, regional, and global contexts, and examin
HIST 194	Jerusalem: Sacred and Profane 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples

HIST 195	Genocide in Global perspectives: Twentieth Century and beyond 3 Credits	The history and memory of the Holocaust, the Armenian, Cambodian and other forms of genocide are often taught separately in different disciplines. This course will examine them together through the various ways different
HIST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HIST 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HIST 200	American Local History 3 Credits/Maximum of 6	Topics in American local history relating local to national developments and studying the historical method by using primary source material.
HIST 203N	History of Monsters, Aliens & the Supernatural 3 Credits	HIST 203N course considers the role of the supernatural and otherworldly forces in a variety of human societies. The course focuses on narratives of the supernatural/anomalous, as well as the social power that such stories
HIST 210	Freedom's First Generation: African American Life and Work, from the Civil War to Wo 3 Credits	HIST/AFAM 210 explores the context and events that shaped African American life during the post-abolition period from the U.S. Civil War until WW II. The course begins with a comparative examination of the decline of Afric
HIST 211	Slavery and Freedom in the Black Atlantic 3 Credits	This course examines the history of African and Afro-descended people throughout the Atlantic world from the 15th through the 21st centuries. Historical topics include African societies before and after the advent of Europea
HIST 212N	Earthquakes and Human History 3 Credits	A natural disaster is the result of a natural hazard impinging upon human society. In this course we examine seismicity as a geophysical phenomenon and as a natural hazard that interacts with the built environment and the s
HIST 213Y	African American Women's History 3 Credits	This course examines the social, political, and economic history of African American women in the United States from slavery to the present. Using secondary and primary sources along with film and discussion, we will explo
HIST 238N	Society and Culture in Palestine/Israel 3 Credits	The course provides students with basic knowledge on major topics in Palestinian and Israeli societies and cultures with a thematic analysis of these topics. It examines the encounter between Palestinians and Israelis from a
HIST 240Q	Artistic Patronage in Europe 3 Credits	This course surveys the institutions and social networks in which European fine arts were created, consumed and critiqued. Beginning with the medieval period and ranging to the early 20th century, the course will examine th
HIST 245	Middle Eastern Cities 3 Credits	This class explores the history of Middle Eastern and North African cities in the 19th-21st centuries. Cities are more than an agglomeration of buildings and bodies; they are also sites of tremendous political, economic, social

HIST 250	Introduction to the Caribbean 3 Credits	A survey course exploring the emergence and historical evolution of the modern Caribbean. This course will explore the evolution of the Caribbean region from the eve of the arrival of Columbus to the 21st century. It will expl
HIST 252	Revolutions in the Middle East 3 Credits	The "Arab Spring" of 2011 that spread rapidly across the region and featured movements for democratization, social justice, and minority rights collapsed into authoritarian military rule, struggles over the role of political Islam
HIST 255N	History of the Book 3 Credits	HIST 255N studies the global history of the book broadly conceived, from oracle bones to "born digital" materials. The course will examine major developments including the invention of parchment and paper, the prevalence
HIST 260	The Middle East in Film 3 Credits	Through the medium of film, HIST/JST 260 examines the contemporary and historical transformation of the Middle East from the Ottoman period, through the British and French mandates, and the eventual establishment of t
HIST 266Y	Sexuality and Violence in Nineteenth-Century America 3 Credits	HIST/WMNST 266Y explores the social and cultural history of sexuality and violence in the United States during the nineteenth century. Both sexuality and violence are extremely broad topics, and the course will focus on a fe
HIST 292N	Witches and Witchcraft from the Middle Ages to the Present 3 Credits	This course will explore the social and cultural history of witches and witchcraft from the late Middle ages in Europe and the U.S. to the present. The very nature and broad scope of the topic lends itself to an interdisciplinary
HIST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HIST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HIST 296A	**SPECIAL TOPICS** 1-6 Credits	No description
HIST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HIST 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HIST 301W	Scope and Methods of History 3 Credits	A course designed to introduce students to the analysis, methods, and practices of historical writing and research.
HIST 302M	Undergraduate Seminar 3 Credits	Thematic or topical investigation; emphasis on historical criticism and analysis.
HIST 302W	Undergraduate Seminar 3 Credits	Thematic or topical investigation; emphasis on historical criticism and analysis. HIST 302W Undergraduate Seminar (3)(BA) This course meets the Bachelor of Arts degree requirements. The principal aim of the course is to as
HIST 305Y	Middle East Studies Research Workshop 3 Credits/Maximum of 6	The course is a research seminar for undergraduates majoring in Middle East Studies and for students interested in pursuing a sustained research project on a topic related to the Middle East. Course topics on the Middle Ea
HIST 320	Contemporary World History and Issues 3 Credits	Aspects of global history in 20th and 21st centuries and study of selected trends and controversies.
HIST 320W	Contemporary World History and Issues 3 Credits	Aspects of global history in 20th and 21st centuries and study of selected trends and controversies.
HIST 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
HIST 399	Foreign Study--History 1-12 Credits/Maximum of 12	Study in selected foreign countries of various periods and topics in history.
HIST 400	Global History of Food and Famine 3 Credits	This course examines different case studies of agriculture, food production, and food availability in diverse settings to show how access to food and its denial intersects with ethnic and nationalist politics, imperial and colonia
HIST 402N	Russian Economic History 3 Credits	Russia is the largest country on earth. It has had a major influence on world events, especially during the Soviet period. The Soviet period represents the greatest economic experiment ever undertaken. Russia has had a vast
HIST 404	Advanced Public History 3 Credits	Public historians build essential bridges between ordinary citizens and the knowledge and understanding of the past required by any self-governing society. Knowing how time has acted upon a society, how things came to b
HIST 405Y	The Roman Empire 3 Credits	The political and social history of the Roman empire; economic institutions and religious groups which influenced Roman administration.
HIST 406W	Research in Medieval Sources 3 Credits	Guided research in the literature of medieval Europe.
HIST 407	Early Medieval Society 3 Credits	Rise of European nations and evolution of their social and political institutions from the time of Constantine to the Crusades.

HIST 408	Church and State in the High Middle Ages 3 Credits	European political, institutional, and social history in light of church- state tensions from the Crusades to the Renaissance.
HIST 409Y	Antisemitisms 3 Credits	Surveys the history of anti-Semitism from antiquity through the Middle Ages to the present. HIST (J ST) 409Y (RL ST 407Y) European Anti-Semitism from Antiquity to the Present (3) (IL)(BA) This course meets the Bachelor of
HIST 411	Medieval Britain 3 Credits	Political, cultural, and economic history of Britain from circa 400 to 1485 with an emphasis on the kingdom of England.
HIST 412	Intellectual History of the Middle Ages 3 Credits	Intensive study of selected topics, such as philosophy, mysticism, heresy, the church, literary and artistic expression, and science.
HIST 413	Medieval Celtic Studies 3 Credits	Celtic civilization from antiquity to the end of the middle ages.
HIST 414	Renaissance and Reformation 3 Credits	The transformation of consciousness from medieval to modern times, with special emphasis on Renaissance Italy and Reformation Germany.
HIST 416	Zionism 3 Credits	History of Zionist thought and politics to the foundation of Israel 1948.
HIST 417	The Age of Absolutism 3 Credits	Seventeenth- and eighteenth-century royal absolutism in France, Prussia, and Austria; concurrent economic, social, and scientific developments; the Enlightenment.
HIST 418	The French Revolution and the Napoleonic Era 3 Credits	Development of revolutionary France and the First French Empire and their impact on Europe from 1789 to the Vienna settlement.
HIST 420	Recent European History 3 Credits	Impact of two World Wars in twentieth century; social conflict and economic catastrophe; political radicalism; post-1945 recovery and cooperation.
HIST 421	The History of European Women 3 Credits	European women's lives from the Middle Ages to the present.
HIST 424	Comparative History of Sports and Politics 3 Credits	Although sport is popularly considered as a sphere separate from other aspects of social and political dynamics, this course illustrates the contrary reality that both active and passive involvements in competitive sports have
HIST 425	History of the Incas 3 Credits	This course examines the political, social, cultural, environmental and religious history of the Incas and their Andean subjects from the 15th century to the present. Via written and visual primary and secondary sources, the co
HIST 426	Holocaust 3 Credits	This course is an in-depth study of the history of the Holocaust in Europe that puts special emphasis on primary sources. HIST 426 / JST 426 Holocaust (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements
HIST 427	Germany Since 1860 3 Credits	Bismarckian power-state; rise to economic dominance; welfare and warfare under Weimar republic and Hitler; post-1945 reconstruction and democracy.
HIST 428	The Darwinian Revolution 3 Credits	The origins and implications of evolutionary theory.
HIST 429	Europe in the Age of Nationalism, 1789-1914 3 Credits	Emphasizing the role of nationalism in European cultural, diplomatic and imperial developments; concurrent economic and social changes.
HIST 430	Eastern Europe in Modern Times 3 Credits	Influence of geography, economic conditions, and nationalism upon the Eastern European and Balkan peoples; Pan-Slavism, conflicting interests of the great powers.
HIST 431	Black Liberation and American Foreign Policy 3 Credits	This course deals with American foreign policy and Black liberation in Africa since 1945. AFAM 431 / HIST 431 Black Liberation and American Foreign Policy (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requi
HIST 432	Between Nation and Empire: The Caribbean in the 20th Century 3 Credits	An exploration of the political evolution of the Caribbean Region over the course of the 20th Century. HIST 432 / AFAM 432 Between Nation and Empire: The Caribbean in the 20th Century (3) (IL)(BA) This course meets the Ba
HIST 433	Imperial Russia, 1700-1917 3 Credits	Enlightened absolutism, mercantilism, westernization; economic progress, liberal reforms, and revolutionary movement; major intellectual and cultural trends; Russia as great power.
HIST 434	History of the Soviet Union 3 Credits	Revolution; social, political, economic, and cultural continuity and change in the U.S.S.R. since 1917.
HIST 435	Topics in European History 3 Credits/Maximum of 9	Study of a particular period or country in European history, its significance and relation to other areas and the present. (May be repeated for credit.)
HIST 436	Great Britain Under the Tudors and Stuarts, 1485-1688 3 Credits	Religious, political, and constitutional developments in the British Isles.
HIST 437	Great Britain 1688-1867 3 Credits	Social, economic, and political history of Great Britain from late Stuart times until the mid-Victorian era.
HIST 438	Great Britain 1867-Present 3 Credits	Social, economic, and political history of Great Britain from the mid- Victorian era to the present.
HIST 439	Women and the Holocaust 3 Credits	Analysis of women's experience in the Holocaust and exploration of the role of gender in Holocaust Studies. J ST (HIST/WMNST) 439 Women and the Holocaust (3) Most of the early study of the Holocaust focused almost e
HIST 440	Colonial America to 1753 3 Credits	Background, establishment, and growth of the American colonies, including economic, political, social, religious, and intellectual developments.
HIST 441	Revolutionary America, 1753-1783 3 Credits	Forces in Great Britain and America causing withdrawal of thirteen colonies from the British Empire and the Revolutionary War.
HIST 442	The Early American Republic, 1783-1850 3 Credits	Confederation and Constitution; the Federalist and Jeffersonian periods; "the Era of Good Feelings"; "the Age of Jackson."
HIST 443	Jewish Histories of the Middle East 3 Credits/Maximum of 6	Jews have been part of Middle Eastern societies for thousands of years. They flourished at times and endured hardships at others, but they have been part of every significant social and cultural transformation of the Middle
HIST 444	The United States in Civil War and Reconstruction--1850-1877 3 Credits	Causes of the Civil War; conduct of the war, North and South; impact of the war; problems of Reconstruction.
HIST 444W	The United States in Civil War and Reconstruction--1850-1877 3 Credits	Causes of the Civil War; conduct of the war, North and South; impact of the war; problems of reconstruction.
HIST 445	The Emergence of Modern America 3 Credits	Economic, social, political history of the United States, 1877-1919, emphasizing growth of industrialism and development as a modern nation.
HIST 446	America Between the Wars 3 Credits	The Roaring Twenties, the Great Crash, Depression, and New Deal; war debts, reparations, isolationism, and World War II.
HIST 447	Recent American History 3 Credits/Maximum of 3	Contemporary economic, social, and political aspects of the United States and its role as a world power since 1945. AMST 447 / HIST 447 Recent American History (3)This course covers the history of the United States from
HIST 448	America in the 1960s 3 Credits	Social, political, and cultural themes in the United States in the 1960s.
HIST 449	Constitutional History of the United States to 1877 3 Credits	Colonial background; framing and adoption of the constitution; development of the court under Marshall and Taney; sectionalism, Civil War, Reconstruction.
HIST 450	Constitutional History of the United States Since 1877 3 Credits	Constitutional developments from laissez-faire to the welfare state; imperialism, war, internationalism; the contemporary court, civil liberties, and civil rights.
HIST 451	The Consumer Revolution 3 Credits	The origins and impact of American consumer society since 1870. HIST 451HIST 451 The Consumer Revolution (3) (US)(BA) This course meets the Bachelor of Arts degree requirements. This lecture course shows how the U
HIST 452	History of U.S. Foreign Relations 3 Credits	History of U.S. foreign relations since 1789; emphasis on twentieth century.
HIST 453	American Environmental History 3 Credits	The history of the ways Americans have used and thought about the environment since 1500.
HIST 454	American Military History 3 Credits	Development of U.S. military policy, 1776 to the present, emphasizing the conduct of our wars, interrelationship of civil and military authority.
HIST 455	The History of Epidemics 3 Credits	This course introduces the history of epidemics from the 1300s to the present day through historical case studies from across the globe, including examples such as the Black eath; Smallpox; Cholera; Influenza; HIV/AIDS; Zi
HIST 457	Hiroshima & the Holocaust in History and Memory 3 Credits	The history and memory of the Holocaust and Hiroshima and Nagasaki are often taught separately in different disciplines. This course will examine them together through the various ways different societies remembered, unc
HIST 458Y	History of Work in America 3 Credits	LHR 458Y, "History of Work in America," a writing-intensive course, studies selected problems in the history of work in the United States. This course addresses economic, technological, social, cultural, and political aspects
HIST 459Y	Social and Cultural History of the United States Since 1783 3 Credits	Role of immigration, social reform movements, religion, education, science, literature, and the arts in American history.
HIST 460Y	Research Seminar in History of Asian Religion & Medicine 3 Credits/Maximum of 9	This seminar focuses on the intersection of history, religion, and medicine in Asia. It is an upper-level, writing-intensive course that gives students the opportunity to learn research skills that are central to humanities research.
HIST 461	The Emergence of the American City: 1100-1880 3 Credits	The growth of American cities from their urban origins in Europe and the Native-American Southwest to 1880.
HIST 462	The Twentieth Century City 3 Credits	Political, economic, social, and cultural transformations in American cities from 1880 to 2000.
HIST 465	The Post-World War II Civil Rights Movement 3 Credits	The civil rights struggle and its impact upon American politics. AFAM 465 / HIST 465 The Post-World War II Civil Rights Movement (3) (US) This course focuses on the post-World War II Civil Rights Movement. It begins with a
HIST 466	Lesbian and Gay History 3 Credits	Critical exploration of the history of sexuality, focusing especially on the emergence of modern lesbian and gay identities. WMNST (HIST) 466 Lesbian and Gay History (3) (US;IL) This course will explore the relationships in di

HIST 467	Latin America and the United States 3 Credits	Historical development of policies of the United States with regard to Latin- American affairs from colonial times to the present.
HIST 468	Mexico and the Caribbean Nations in the Twentieth Century 3 Credits	Political, economic, and social development in Mexico and the Caribbean since 1900. Emphasis on Mexican, Guatemalan, and Cuban revolutions.
HIST 469	Drugs and Drug Policy in the United States 3 Credits	Examines the history and dimensions of drug use and analyzes the impact of drug policy. CRIMJ 469 / HIST 469 Drugs and Drug Policy in the United States (3) For nearly a century, the United States has been waging its vers
HIST 470	Modern Bondage: Slavery in the Americas, 1492-1888 3 Credits	The work, culture, ideology, and political economy of slavery in the Americas between 1500 and 1888.
HIST 471Y	Classical Islamic Civilization, 600-1258 3 Credits	Pre-Islamic Arabia; Muhammad; Arab conquests; Islamic beliefs and institutions; literary, artistic, and scientific achievements; relations with Europe; breakdown of unity.
HIST 472	The Ottoman Empire 3 Credits	This course examines the history of the Ottoman Empire from its origins to the rise of the Turkish Republic, an historical time period covering approximately 1300 to 1923. Each week, the class will focus on a major turning po
HIST 473	The Contemporary Middle East 3 Credits	Political, economic, and social changes in Turkey, Iran, Israel, and the Arab countries in the twentieth century; Arab-Israeli conflict.
HIST 474	Early Modern Japan 3 Credits	Japanese history from 1580-1880. ASIA 474 (HIST 474, JAPNS 426) Early Modern Japan (3) Japan's Tokugawa period can be difficult to grasp. It resembles a modern society in many respects but operated according to a lo
HIST 475Y	The Making and Emergence of Modern India 3 Credits	India's transition to social, economic, and political modernity through the experience of British colonial rule and the nationalist struggle. ASIA (HIST) 475Y The Making and Emergence of Modern India (3) (IL)(BA) This course r
HIST 478	American Military History Since 1900 3 Credits	Development of United States military policy in the 20th and 21st centuries, emphasizing conduct of wars, interrelationship of civil and military authority.
HIST 479	History of Imperialism and Nationalism in Africa 3 Credits	A selective overview of the history of iumperialism and nationalism in Africa. HIST/AFR 479 History of Imperialism and Nationalism in Africa. This course meets the Bachelor of Arts degree requirements. History/African Studie
HIST 480	Japan in the Age of Warriors 3 Credits	An overview of Japan from the 10th to 17th century, a period of political decentralization, cultural efflorescence, and social change. ASIA (HIST) 480 Japan in the Age of Warriors (3) (IL)(BA) This course meets the Bachelor of
HIST 481	Modern Japan Since 1800 3 Credits	The transformation of Japan from a relatively isolated, agricultural nation into a highly industrialized world power. ASIA (HIST) 481 Modern Japan Since 1800 (3) (IL)(BA) This course meets the Bachelor of Arts degree requiren
HIST 482	Confucius and the Great Books of China 3 Credits	This course familiarizes students with the critical texts and intellectual cultures of Warring States and early imperial China. CHNS 418 / ASIA 418 / HIST 482 Confucius and the Great Books of China (3) This course exposes st
HIST 483	Middle China 3 Credits	The social, political, and cultural issues and developments from the 8th to 16th century. ASIA (HIST) 483 Middle China (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This advanced discussion-base
HIST 484Y	History of Chinese Thought 3 Credits	A study of the dynamic historical development of Chinese thought with its diverse expressions from antiquity to the present. ASIA (HIST) 484Y History of Chinese Thought (3) (IL)(BA) This course meets the Bachelor of Arts d
HIST 485Y	China's Last Empire: The Qing Dynasty, 1644-1911 3 Credits	China from 1644 founding of Qing dynasty to 1911 fall; Chinese society and institutions, imperialism and China's internal diversity. ASIA (HIST) 485Y China's Last Empire: The Qing Dynasty, 1644-1911 (3) (IL)(BA) This course
HIST 486	China in Revolution 3 Credits	China from 1900 to the present; nationalism, cultural change; development of communism. ASIA (HIST) 486 China in Revolution (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course examines
HIST 488	American Diplomacy Since 1914 3 Credits	Developments in the foreign policy of the United States since the eve of World War I.
HIST 490	Archival Management 1-3 Credits/Maximum of 3	Introduction to the principles and procedures in the management of archives and historical manuscripts.
HIST 491	British Civil Wars and Revolutions, 1639-1651 3 Credits	This is an advanced course on the history of the general crisis in the British Isles, from the outbreak of war between England and Scotland in 1639 to the securing of the Commonwealth regime following the desstruction of th
HIST 492	Witchcraft in Early Modern Europe 3 Credits	Survey of the social, economic, political, and religious conditions of accusations and prosecutions of witchcraft in western Europe and north America, from 1500 to 1700.
HIST 493	History of Death and Mourning 3 Credits	This seminar will examine the social, cultural, religious, and philosophical attitudes regarding the treatment of death and dying, the care and disposal of the dead, and the processes associated with mourning and commemor
HIST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HIST 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HIST 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practicums, or internships.
HIST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HIST 496A	**SPECIAL TOPICS** 1-18 Credits	No description
HIST 496H	Independent Studies 1 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HIST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HIST 499	Foreign Study--History 1-6 Credits/Maximum of 6	Study in selected foreign countries of various periods and topics in history.
HLS 201	Introduction to Homeland Security 3 Credits	An introduction to homeland security, and defense, with a focus on policy, legal issues, organization, and administration. PUBPL 201 Introduction to Homeland Security (3) Introduction to Homeland Security provides a basel
HLS 306	Introduction to Crisis and Emergency Management 3 Credits	An introduction to emergency management in mitigating, preparing for, responding to and recovering from hazards. PUBPL 306 Introduction to Crisis and Emergency Management (3) The course offers an overview of the fiel
HLS 475	Critical Infrastructure Protection 3 Credits	This course provides knowledge about protection of critical infrastructure as an aspect of homeland security. PUBPL 475 Critical Infrastructure Protection (3) Critical Infrastructure Protection provides a definition of critical inf
HLS 476	Homeland Security Intelligence 3 Credits/Maximum of 3	The Homeland Security Intelligence course provides a depth of knowledge of key intelligence issues for homeland security professionals.
HLS 483	Seminar in National Security Policy 3 Credits	This course provides a comprehensive overview of the process of U.S. national security policy - the principles, practices, and participants in the development and implementation of security strategy and policy. It applies thec
HLS 495	Homeland security internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required. A specific title may be used in each instance and will be entered on the student'
HONOR 201	Developing Critical Thinking for Leadership 1-3 Credits	Discussions on various topics using critical thinking skills to make informed leadership decisions.
HONOR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HONOR 301	The Role of Knowledge in Society 3 Credits	Honors interdisciplinary study of topics utilizing contributions from science/ engineering, business, public policy, behavioral sciences/education, and the humanities. HONOR 301H The Role of Knowledge in Society (3)This c
HONOR 401	Honors Seminar 1-6 Credits/Maximum of 6	In-depth honors-level exploration of a topic or theme that crosses disciplinary boundaries; may be repeated for credit. HONOR 401H Honors Seminar (3 per semester/maximum of 6)Students will accomplish in-depth honors
HONOR 493	Honors Service Learning 1-3 Credits/Maximum of 3	A supervised honors experience doing service for campus or community welfare and analyzing related issues. HONOR 493H Honors Service Learning (1-3 per semester/maximum of 6)Students will have a supervised honors
HONOR 494M	**SPECIAL TOPICS** 1-2 Credits	HONOR 494M Interdisciplinary Writing and Thesis Formulation (2)This course is a seminar to help students understand various approaches to interdisciplinary analysis. The course helps students learn about writing as an inte
HONOR 495	Research Studies 1 Credits	A capstone seminar for honors students working on honors theses and projects to work together and learn about their research interests. HONOR 495H Research Studies (1)A capstone seminar for honors students working
HONOR 496	Honors Thesis 3 Credits	Research, creative activities, and writing necessary for pursuit and completion of an interdisciplinary honors thesis. HONOR 496H Honors Thesis (3)Students will learn research, creative activities, and writing techniques nece
HONOR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HORT 101	Horticultural Science 3 Credits	Introduction to horticulture with an emphasis on plant domestication, morphology, classification, world food crops, commodities, gardens, propagation, and agrochemicals. The course content of HORT 101, as indicated in th

HORT 120	Computer Applications for Landscape Contracting 2 Credits	Emphasis is placed on the use of commercial software used for landscape planning and estimating. Limited to Landscape Contracting majors only.
HORT 131	Herbaceous Perennial and Annual Identification 3 Credits	In this class students learn to identify and use many common and some not-so-common ornamental herbaceous annual and perennial plants. After completing this class students will have practiced identifying by scientific na
HORT 137	Ornamental Plant Materials 3 Credits	Identification and description under fall conditions; discussion of cultural and aesthetic aspects of trees of value in ornamental planting.
HORT 138	Ornamental Plant Materials 3 Credits	Identification and description under spring conditions; discussion of cultural and aesthetic aspects of shrubs of value in ornamental plantings.
HORT 150N	Plants in the Human Context 3 Credits	Plants have played a dynamic role in shaping our life. In reality, human existence on Earth is made possible by the breath of plants through photosynthesis. Likewise, our botanical connections and interactions are many: we r
HORT 169N	Fundamentals of Home Landscaping: An Introduction to Design, Construction, and M 3 Credits	Fundamentals of Home Landscaping offers broad coverage of the environmental, human, technological, and aesthetic issues associated with residential landscape design. Beginning with the way we perceive, manage, and c
HORT 201	Applied Arboriculture 2 Credits	The objective of this course is to provide students with the opportunity to develop an appreciation of the skills required to properly care for large trees. The course provides information that is especially useful to those in the L
HORT 202	Plant Propagation 3 Credits	This course introduces the principles and practices of asexual and sexual plant propagation. By the end of this class students will have hands on experience with many common forms of plant propagation and should be able
HORT 220	CAD Applications in Landscape Contracting 3 Credits	Application of computer-aided design software including AutoCAD and LANDCADD to landscape contracting.
HORT 232	Horticultural Systematics 3 Credits	Fundamentals of horticultural crop plant classification and systematics. Examples chosen from fruits and vegetables, exclusive of subtropical and tropical fruit.
HORT 238	Turf and Ornamental Weed Control 3 Credits	Students will be introduced to the development of integrated weed management strategies utilizing a variety of cultural and chemical methods.
HORT 250	Landscape Contracting Design/Build Principles 3 Credits	Introduction to the processes and principles of residential landscape site development, from initial client contact to implementation.
HORT 269	Residential Landscape Planning 3 Credits	Introductory course which develops the student's ability to understand the processes, techniques, and theories that form the basis of residential site planning. The course covers the planning process, principles of design and
HORT 270	Basic and Advanced Hand and Digital Graphics for Landscape Contracting 1 Credits	Graphics are the language of design and presentation in Landscape Contracting. The ability to develop, document and communicate design ideas is essential for success in any design profession. As a graphics arts course,
HORT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
HORT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HORT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HORT 301	Principles of Arboriculture 3 Credits	The objective of the course is to introduce students to the theories and practices related to the care of trees in developed areas. The course provides information that is especially useful to those in the Landscape Manageme
HORT 315	Environmental Effects on Horticultural Crops 3 Credits	Horticultural plants respond to the environmental factors of light, temperature, water, and fertilizer both in controlled and field environments.
HORT 352	Flower Arranging 2 Credits	Floral design beginning with elements and principles of design. Flower arranging techniques as well as different styles of flower arrangements.
HORT 368	Landscape Planting Design 4 Credits	Basic planting design employing the use of indigenous and ornamental plants as design elements in the man-made environment. Intended for Landscape Contracting majors only.
HORT 402W	Plant Nutrition 3 Credits	Mineral nutrition of higher plants, including nutrient acquisition, transport, metabolism, and practical implications. HORT 402W Plant Nutrition (3) The course considers the mineral nutrition of higher plants from physiological,
HORT 407	Plant Breeding 3 Credits	The scientific principles and techniques of utilizing genetic variability in improving the heredity of plants for specific purposes. HORT 407 Plant Breeding (3) Horticulture 407 is a 3-credit course that is taught every spring sem
HORT 408	Landscape Plant Establishment and Maintenance 4 Credits	The course examines the environmental factors that assure success of landscape plants and the plant physiological conditions affected by the management practices (e.g., selecting plants, planting, irrigating, fertilizing, mulc
HORT 410W	Issues in Landscape Contracting 3 Credits	An overview of current and emerging issues in the Landscape Contracting Industry. Students will learn about the entrepreneurial, management, labor, and environmental issues that are shaping careers and the direction of the
HORT 412W	Post-Harvest Physiology 3 Credits	The purpose of this course is to examine the changes occurring in harvested horticultural crops and understand the means of controlling these changes. This is accomplished through an understanding of the basic physiolog
HORT 431	Small Fruit Culture 3 Credits	An overview of small fruit crop production, including grapes, strawberries, raspberries, blackberries, blueberries, cranberries, currants and gooseberries. The botany and physiology of each crop is discussed so students und
HORT 432	Deciduous Tree Fruits 3 Credits	Science, art, and techniques of regulated cropping; orchard designs and management systems.
HORT 433	Vegetable Crops 3 Credits	Cultural requirements of important vegetable crops in conjunction with physiological processes and problems related to commercial production. This course will provide students with information, techniques and ideas to pro
HORT 445	Plant Ecology 3 Credits	Advanced lectures on plant ecology which stress integration of physiological, population-level and community-level phenomena, and ecology in agriculture.
HORT 451	Hydroponics and Aquaponics 3 Credits	The course provides information that is especially useful to those with knowledge of horticultural plants; however a background in plant production is not needed. Major topics discussed include basic concepts in plant and fi
HORT 453	Flower Crop Production and Management 3 Credits	The objective of this course is to provide students with detailed and specific knowledge, skills, and techniques used in production of commercial floricultural crops in the greenhouse and to introduce students to the systems
HORT 455	Retail Horticulture Business Management 3 Credits	The nature, operation, and management of retail garden centers, winery tasting rooms, and independent food retailers. Overview of retail marketing principles and practices as they pertaining to horticultural retail businesses.
HORT 459	Plant Tissue Culture and Biotechnology 3 Credits	The overall goal of this course is to provide a strong overview of the techniques used in plant biotechnology and the applications made possible by those techniques. The lecture topics will be used to introduce the principles
HORT 464	Landscape Construction I 4 Credits	Develop and refine the student's ability to understand construction details likely to be encountered by the landscape contractor. It will introduce the technical considerations required to implement design in a manner that is b
HORT 466	Landscape Construction II 5 Credits	Project scheduling methods, plant installation techniques, and field layout principles and practices. Implications of site preparation.
HORT 468	Landscape Estimating and Bidding 2 Credits	Reading and interpreting contract drawings and specifications, quantity take- offs, cost estimating, and bid document preparation.
HORT 495	Internship 1-13 Credits/Maximum of 13	Supervised off campus experience in a public or commercial horticultural enterprise. Written and oral critique of activity required.
HORT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HORT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HORT 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HORT 499F	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on
HM 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HM 100S	Hospitality Management First Year Seminar 1 Credits	The purpose of the First-Year Seminar is to introduce new students to an open and purposeful learning community, and to help them develop the habits and pleasures of good scholarship. Working with faculty members, stu
HM 101	Exploring the Global Hospitality Industry 3 Credits	This course introduces students to the many exciting facets of the global hospitality industry, the largest service industry in the world. Students will be provided an overview of the major segments of the hospitality industry ar
HM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HM 201	Introduction to Management in the Hospitality Industry 3 Credits	Introduction to the hospitality industry and hospitality management. HM 201 Introduction to Management in the Hospitality Industry (3) The objectives of this course are to provide an introduction to the hospitality industry, to
HM 202	Colloquium in Hospitality Management 1 Credits/Maximum of 4	Major industry and professional speakers lecture on current issues followed by discussion with students and faculty. HM 202 Colloquium in Hospitality Management (1) This course has two primary objectives. First, students
HM 203	Hospitality Professional Development Seminar 1 Credits	The purpose of this course is to provide students with professional development preparation early in the curriculum. This course will help students obtain quality work experience during their college career to best prepare the

HM 208	Social, Cultural, and Health Influences of Alcohol 1.5 Credits	This course is designed to provide a historical approach to educating students on the development of alcohol and its influence on society. Alcohol is both culturally and economically significant as its usage has been a source
HM 209	Alcohol & Cuisine: Culture & Responsible Service 1.5 Credits	This course focuses on the relationship between alcohol and cuisine. Students will gain a historical perspective on the societal, economic, and regulatory trends that shaped the gastronomy of regional entities around the wor
HM 210N	The Impact of Culture and Customs in Global Hospitality Environments 3 Credits	We live, work, and travel in a world in which interactions with individuals from different cultures is increasingly common and necessary. This course investigates the differences that exist between countries and geographical re
HM 228	Hospitality Food Safety 1 Credits	Application of HACCP, U.S. Food Code, biosecurity and other federal regulations to hospitality foodservice operations. Students attain certification in foodservice sanitation. HM 228 Hospitality Food Safety (1) This course w
HM 230	Principles of Food Production Management 3 Credits	This course introduces students to the food service industry, one of the biggest and most dynamic segments in hospitality. This course will prepare students with a better understanding of the food service industry as well as
HM 235	Hospitality Financial Accounting 3 Credits	Accounting, in many respects, is the language of business and translates business transactions into quantifiable information. The purpose of this course is to provide the tools as to how to use and understand this language f
HM 242	Hospitality Marketing 3 Credits	This course gives an overview of marketing applied to the hospitality industry, including unique attributes of hospitality marketing; understanding consumers and the service-quality imperative; market segmentation; relationsh
HM 250	Principles of Quantity Food Production 3 Credits	Principles and methods of quantity food production including preparation techniques, quality control and evaluation, and cost control.
HM 265W	Teams and Leadership in the Hospitality Industry 3 Credits	The human element is vital to the success of any organization, particularly in the hospitality industry. The purpose of this course is to provide students tools for successfully leading teams of employees to enhance organizatio
HM 271	Hospitality Information Technology Fundamentals 2 Credits	This course introduces students to the technology used in the hospitality industry and to technology concepts. To prepare students for success in the industry, the class is designed to allow students to possess a working kn
HM 272	Introduction to Worksheet-Based Analysis and Modeling for Managerial Decision Mak 2 Credits	The ability to use and apply MS Excel is a vital competency and resume builder for students to have. Companies expect it for career success and dependency on one's ability to use Excel in solving financial and managerial p
HM 280	Fundamentals of Hotel and Accommodations Management 3 Credits	Students will explore the typical ownership and management structures of various types of hotels. Ownership discussions include the various types of ownership entities from sole proprietorships to real estate investment tru
HM 290W	Hospitality Managerial Communication 3 Credits	Communication in organizations is essential to creating an open and collaborative environment. The premise of this course focuses on the core fundamentals of creating and delivering clear and concise business messages.
HM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HM 304	Institutional Food Service Management 3 Credits	Institutional food service management systems in the hospitality field. HM 304 Institutional Food Service Management (3) Institutional and contract food service management is in the growth stage of the hospitality industry li
HM 305	Restaurant Management 3 Credits	Restaurant food service management systems in the hospitality field; analysis including cost control and quality control techniques. HM 305 Restaurant Management (3) Providing quality service and products and ultimately
HM 306	Hospitality in Senior Living 3 Credits	Introduction to senior living and continuing care retirement communities and related hospitality management career opportunities. HM 306 Hospitality in Senior Living (3) This course introduces students to continuing care reti
HM 310	Beverage Management and Professional Service 3 Credits	This course is designed to familiarize students with the beverage industry. The course will introduce students to beverage identification, production, and service strategies. The course provides the principles for responsible s
HM 311	Introduction to Wines of the World 2 Credits	The course introduces students to viniculture and viticulture and the sensory evaluation of wine. It focuses on the complexities of production, storage, grape-growing, and the intersection of agriculture, commerce, and hospit
HM 318	Club Management and Operations 2 Credits	Principles and practices of club organizations and management. HM 318 Club Management and Operations (2) This course focuses on the unique management skills that are necessary in the private club industry. A key obje
HM 319	Hospitality Facilities Management 3 Credits	Fundamental principles of facilities planning, facilities management, and maintenance for all segments of the hospitality industry. HM 319 Hospitality Facilities Management (3) This course has been designed to provide stude
HM 322	Introduction to Brewed Alcoholic Beverages (Beer, Cider, and Mead) 2 Credits	Discover the world of brewed alcoholic beverages. Historical and cultural impacts of brewed beverages (beer, cider, and mead) resonate in nearly all parts of our society. Explore and learn about production techniques, clas
HM 330	Food Production and Operations Management 3 Credits	This course is designed to apply management principles to foodservice production and service in a lab environment. HM 330 stresses the integration of management principles acquired in prior classes, including planning, or
HM 336	Hospitality Managerial Accounting 3 Credits	The course provides managerial tools for decision-making by focusing on the basic concepts, analyses, uses, and procedures of cost accounting in the hospitality industry. Managerial decision-making using accounting data
HM 342	Marketing of Regulated Beverages 2 Credits	The course provides an overview of marketing strategies pertaining to alcoholic and nonalcoholic beverages. Topics include identifying the target market, developing a competitive advantage, selecting, and implementing pro
HM 344	Digital Marketing for Hospitality Management 3 Credits	This class explores the consumer's decision process for hospitality purchases within the changing landscape of digital technologies. The class focuses on expanding students' knowledge of the applications of digital commu
HM 350	Hospitality Revenue and Profit Optimization 3 Credits	This course introduces students to the principles of revenue and profit optimization, and the methodologies and analytical techniques required to make data-driven, profit-oriented decisions across all of the major revenue str
HM 355	Legal Aspects of the Hospitality Industry 3 Credits	Specialized applications of law to the hospitality industry. HM 355 Legal Aspects of the Hospitality Industry (3) Laws, courts, and more generally the legal system together constitute an integral feature of the environment with
HM 366	Human Resource Management in the Hospitality Industry 3 Credits	Hospitality is a people-intensive industry that relies on employees to provide the primary product delivered to the customer - the service experience. Therefore, the goal of this course to further develop your understanding an
HM 382	Franchising in the Hospitality Industry 3 Credits	The course examines franchising from the perspective of the both the Entrepreneur interested in franchising their business (Franchisor) and the Entrepreneur interested in starting a business by buying a franchise (Franchisee)
HM 384	Introduction to Meeting and Event Management 3 Credits	HM 384 Meetings and Events I examines the meeting and event industry, and the skill set of successful Meeting and Event Professionals. The course covers a broad overview of the processes involved in planning and implem
HM 386	Introduction to the Gaming and Casino Industry 3 Credits	HM 386 will serve as a gateway course to the casino concentration for some students and as a supplemental course for students focusing in other areas. The goal is to provide students with an overview of the commercial ga
HM 388	Advanced Gaming Operations Management 3 Credits	The primary objective of this course is to build upon the fundamental understanding of the gaming industry that was introduced in the introductory course. The advanced students will gain an understanding of what it means
HM 390	Corporate Social Responsibility in Hospitality 3 Credits	This course introduces students to issues of corporate social responsibility. The course is taught from both general business and hospitality perspectives. Specifically, this course addresses the general historical development
HM 395A	Penn State Hospitality Services Internship 3 Credits/Maximum of 12	The on-campus internship course provides experience that will prepare students for management-level employment. This is designed to provide students with real job experience that complements their classroom learning a
HM 395B	Penn State Hospitality Services Executive Internship 3 Credits/Maximum of 6	The on-campus internship course provides experience that will prepare students for management-level employment. This is designed to provide students with real job experience that complements their classroom learning a
HM 395C	Penn State Food Services Internship 3 Credits/Maximum of 12	The on-campus internship course provides experience that will prepare students for management-level employment. This is designed to provide them with real job experience that complements their classroom learning and
HM 395D	Off Campus Internship - PSHS 3 Credits/Maximum of 12	The Off-campus internship course provides experience that will prepare students for management-level employment. This is designed to provide students with real job experience that complements their classroom learning a
HM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HM 407	The Sustainable Fork: Food Systems Decisions for Away-From-Home Eating 3 Credits	The course will incorporate economic and managerial dimensions to the discussion of food decisions in foodservice away-from-home eating contexts, particularly emphasizing the behavioral aspect of decisions - how indivic
HM 413	New Product Development for Commercial Foodservice 3 Credits	This course introduces students to a new product development process that requires coordination, communication, and integration throughout the organization.
HM 430	Applied Leadership in Foodservice Operations Management 3 Credits	This course is designed to give students an opportunity to gain experience in the wide range of skills and techniques that are normally associated with the duties of a hospitality manager. The skills and techniques that will be
HM 432	Contemporary Issues in Restaurant Management 3 Credits	A focus on special topics and current events in the restaurant industry. HM 432 Contemporary Issues in Restaurant Management (3) The purpose of this course is to focus on contemporary issues and current events in the re
HM 435	Hospitality Corporate Finance 3 Credits	This is an introductory financial management course for the hospitality management major. The course will teach students fundamental knowledge of financial management concepts. This course will introduce a wide range c
HM 480	Applied Hospitality Concepts and Decision Making 3 Credits	Applied Hospitality Concepts and Decision Making is designed as a capstone course in the Hospitality Operations stream. The course primarily focuses on students' participation in a hotel management simulation. The simul
HM 481	Advanced Topics in Hospitality Management 3 Credits	This course will focus on advanced topics in hospitality management that are of critical importance in a dynamic and ever-changing operating environment. The content will range from topics that effect hospitality operations
HM 482	Hospitality Real Estate 3 Credits	Ultimately, hospitality enterprises are location-based businesses requiring the deployment of real estate. To understand this important concept, hospitality students need to understand real estate in a hospitality industry envir
HM 483	Revenue Management 3 Credits	Students learn how to effectively implement revenue management strategies and techniques in the hospitality industry.
HM 484	Hospitality Entrepreneurship and Innovation 3 Credits	This course examines Entrepreneurship, Intrapreneurship and Innovation in the Hospitality Industry. The course provides a foundation of how ideas are generated, implemented, and taken to market. The course examines the

HM 485	Advanced Meeting and Event Management 3 Credits	Meeting and event planning is an important and viable professional career option within the hospitality industry. Each event contains all the aspects of any business venture: stakeholder analysis, operations plan, marketing pl
HM 486	Casino Marketing 3 Credits	The primary objective of this course is to build upon the fundamental understanding of the gaming industry that was introduced in the introductory course. The advanced students will gain an understanding of the various pro
HM 488	Hospitality Asset Management 3 Credits	Asset management is a growing and dynamic discipline in the hospitality industry. Asset managers are integral to the relationships between owners, managers, franchisors, franchisees, and brands. Today's owners expect as
HM 490	Strategic Hospitality Management 3 Credits	The purpose of this capstone course is to integrate previous course work to enhance students' analytical and critical thinking skills, managerial decision making skills, and an awareness of emerging trends in the hospitality in
HM 490W	Strategic Hospitality Management 3 Credits	This capstone writing-intensive class integrates content from throughout the previous curriculum, focusing on strategic application to current industry issues. HM 490W Strategic Hospitality Management (3) This capstone cc
HM 492	Advanced Professional Seminar in Hospitality Management 1 Credits	Course prepares senior HM students to assume leadership positions in the hospitality industry (Focus on careers, leadership, ethics, lifelong learning).
HM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HM 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Independent study related to a student's interests directed by a faculty supervisor and culminating in the production of a thesis.
HM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HM 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HDFS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 101N	Helping People: Introduction to Understanding Social Problems & How to Help 3 Credits	This inquiry-based course introduces students to the dynamic world of helping through the exploration of "hot topics"/pressing social issues. Exploration will highlight core themes of lifespan human development, lives in con
HDFS 108N	Art and Science of Human Flourishing 3 Credits	This course offers students the opportunity to explore human flourishing - defined as a life of deep meaning, fulfillment and service to others. Students will be taught about flourishing through the lens of science, philosophy, a
HDFS 109	Community, Connection, and Contemplation 1.5 Credits	Supportive relationships and communities are critical to health and well-being. However, creating meaningful relationships is challenging, and often requires a continuous exploration of the self and others. In this course, hum
HDFS 129	Introduction to Human Development and Family Studies 3 Credits	Introduction to psychosocial and family development at all stages of the individual and family life cycle. Students may take only one course for General Education credit from SOC 30 or HDFS 129. HDFS 129 Introduction to H
HDFS 129S	Introduction to Human Development and Family Studies 3 Credits	Introduction to psychosocial and family development at all stages of the individual and family life cycle.
HDFS 175N	Introduction to Youth Development and Arts-based Social Justice 3 Credits	Youth Development and Arts-based Social Justice is an inter-domain course (GA/GS) intended to help students develop a critical understanding of the ways that sociopolitical factors influence youth development. The course
HDFS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 200	Quantitative Skills for Human Services 3 Credits	This course introduces students to the quantitative methods used in human service careers emphasizing the implementation and interpretation of quantitative procedures in human service program settings. Students will obta
HDFS 210	Ethnicity, Health and Aging 3 Credits	The study of health and aging among persons from diverse race populations is not only the study of how people of different racial groups age, but also the contexts in which these populations function physically, psychologic
HDFS 215N	Global health and families 3 Credits	This course examines global health from a family dynamics approach. The emphasis throughout the course is on the integration of family and health. Social science theories are introduced to understand how family kinship p
HDFS 216	Personal and Interpersonal Skills 3 Credits	Conceptions of lifespan personal and interpersonal skill enhancement.
HDFS 229	Infant and Child Development 3 Credits	Theory, research, and methods of social/behavioral/biological sciences related to developmental processes and intervention during infancy and childhood. HD FS 229 Infant and Child Development (3) (GS)(BA) This course m
HDFS 230	Overview of Curricular Practices in Early Childhood Care and Education 3 Credits	Curricular practices in programs for infants, toddlers and preschoolers. Focus on developmentally appropriate practice, emergent curriculum and home/child care links. HD FS 230 Overview of Curricular Practices in Early Ch
HDFS 231	Guidance in Early Childhood Care and Education 3 Credits	Positive guidance methods for infants, toddlers and preschoolers, leading to self-control and social capability. Includes focus on home/childcare links. HD FS 231 Guidance in Early Childhood Care and Education (3) This co
HDFS 232	Creativity and Play in Early Childhood Care and Education 3 Credits	Planning for play, creativity and exploration in programs for infants, toddlers and preschoolers. Includes focus on home/childcare links. HD FS 232 Creativity and Play in Early Childhood Care and Education (3) This course, i
HDFS 233	Emergent Language and Literacy: Development and Practice in Early Childhooc 3 Credits	Fostering development of language and literacy in infants, toddlers and preschoolers. Includes children's literature and focus on home/childcare links. HD FS 233 Emergent Language and Literacy: Development and Practic
HDFS 239	Adolescent Development 3 Credits	This course provides a basic introduction to concepts, theoretical perspectives, and key empirical studies on adolescent development. Students will become familiar with key developmental trends and challenges that must b
HDFS 245N	Health, humanity, and longevity: Conversations with elders 3 Credits	How can a person grow to become more truly themselves? How do our habits inform our future? This course examines current research on happiness, aging, and well-being alongside the lived experience of older adults. Tog
HDFS 249N	Adult Development and Aging 3 Credits	This course provides a basic introduction to concepts, theoretical perspectives, and key empirical studies on adult development and aging. Students will become familiar with key developmental trends and challenges that m

HDFS 250	Sexual Identity over the Life Span 3 Credits	Concepts of affectional and sexual orientation over life span, with emphasis on lesbian and gay male personal, family, and community adaptation. HD FS (WMNST) 250 Sexual Identity over the Life Span (3) (US) This course
HDFS 250H	Sexual Identity Over The Lifespan 3 Credits	CONCEPTS OF AFFECTIONAL AND SEXUAL ORIENTATION OVER LIFESPAN, WITH EMPHASIS ON LESBIAN AND GAY MALE PERSONAL, FAMILY, AND COMMUNITY ADAPTATION.
HDFS 254N	Reading Our Lives: Understanding Diversity and Human Development through Memo 3 Credits	Students will explore the way people and their environments interact to influence human development through the integration of memoirs and other personal narratives, humanist themes and methods of inquiry, and social sc
HDFS 258N	Introduction to Child Maltreatment and Advocacy Studies 3 Credits	Introduction to the multidisciplinary field of child maltreatment. CMAS (HD FS) 258 Introduction to Child Maltreatment and Advocacy Studies (3) This course will focus on the identification, investigation, service, advocacy, pr
HDFS 287Y	Intercultural Community-Building 3 Credits	An experiential introduction to negotiating differences in small groups, families, institutions, and communities. HD FS 287Y Intercultural Community -Building (3) (GS;US) This course provides students an experiential introduc
HDFS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HDFS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 300	Honors Seminar: Concepts and Issues in Human Development and Family Studi 3 Credits	Introduces core concepts and issues in the study of Human Development and Family Studies.
HDFS 301	Values and Ethics in Health and Human Development Professions 3 Credits	Examines bases for choices among values in personal and professional relations in human development processes and supporting services.
HDFS 302A	Leadership and Technology Skills for Human Services Professionals A 3 Credits	Development of skills essential for contemporary human services professionals, including critical thinking, problem solving, electronic communications, and information handling.
HDFS 310M	Seminar in Honors--Research Methods 4 Credits	Overview of research and methods issues tailored around development of honors thesis proposals. HDFS 310 Seminar in Honors--Research Methods is designed to cover all of the elements in designing a research project. T
HDFS 311	Human Development and Family Studies Interventions 3 Credits	Survey of individual and family formal and informal intervention efforts; historical and current perspectives and approaches.
HDFS 312W	Empirical Inquiry in Human Development 3 Credits	Introduction to the skills involved in critical thinking in general and the methods of empirical inquiry in particular. Open to HD FS majors only.
HDFS 314	Understanding Human Development and Family Research 1 Credits	Students who complete HDFS 314 will have a broad understanding of the methodological principles and the techniques used to measure human and family behavior. Students will also acquire an understanding of how statis
HDFS 315	Family Development 3 Credits	Family functions over the life course; family from a multidisciplinary perspective, emphasizing adaptation and change. HDFS 315 Family Development (3) (US) This course offers an overview of families focusing primarily on co
HDFS 315Y	Family Development 3 Credits	Family functions over the life course; family from a multidisciplinary perspective, emphasizing adaptation and change. HDFS 315Y Family Development (3) (US) This course offers an overview of families focusing primarily on
HDFS 330	Observation or Experience with Children, Youth, and Families 1-6 Credits	Directed observations of, or supervised experience with children, youth, and families in group or home settings.
HDFS 345	CONTEMPORARY URBAN ISSUES AND SOCIAL JUSTICE FRAMEWORKS 3 Credits/Maximum of 3	The discipline of Human Development and Family Studies has a tradition of culturally sensitive engagement within communities, helping to improve quality of life by applying and disseminating knowledge about development
HDFS 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
HDFS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 400	Youth Development and Social Justice Capstone Seminar 4 Credits	This course will immerse students in theories, historical contexts, and practices of structural oppressions that influence youth development, and responses to them through youth empowerment, democratic action, and popul
HDFS 401	Project Planning, Implementation, and Evaluation in the Human Services 3 Credits	Exercises and activities related to the design, planning, implementation and management, and evaluation of projects and programs in the human services. HD FS 401 Project Planning, Implementation, and Evaluation in the
HDFS 402	Human Services Seminar 4 Credits	Presentations and discussion of contemporary human issues by students and visiting professionals.
HDFS 405	Gender and Social Development 3 Credits	A REVIEW OF GENDER-RELATED PATTERNS OF SOCIAL DEVELOPMENT OVER THE LIFESPAN, AS INFLUENCED BY BIOLOGICAL, SOCIOLOGICAL, AND PSYCHOLOGICAL FACTORS.
HDFS 410	Communities and Families 3 Credits	Family and community interaction, emphasizing strategies for intervention to solve family-community problems.
HDFS 411	The Helping Relationship 3 Credits	Theory and research related to interpersonal conditions which facilitate personal growth; intensive interpersonal competency training.
HDFS 412	Adult-Child Relationships 3 Credits	Theories, research, and application of adult behavior for maximizing adult- child relationships and optimizing child socialization and self-development.
HDFS 413	Developmental Problems in Adulthood 3 Credits	Analysis of individual developmental problems from young adulthood through old age and their prevention and modification.
HDFS 414	Resolving Human Development and Family Problems 3 Credits	Strategies for, and roles of professional specialists in, the solution of problems in human development and family functioning.
HDFS 415	Program Development in Family Relationships 3 Credits	Methods for planning, developing, and evaluating human service programs for families across the life span.
HDFS 416	Racial and Ethnic Diversity and the American Family 3 Credits	This course will explore the nature and determinants of racial and ethnic variation in family processes in the United States. HD FS 416 (SOC 411) Racial and Ethnic Diversity and the American Family (3) During the last severa
HDFS 417	Biocultural Studies of Family Organization 3 Credits	Study of variability in family organization with an emphasis on cultural and economic factors influencing household organization and family roles.
HDFS 418	Family Relationships 3 Credits	Dynamics of family interaction; effects of parenthood, sibling and intergeneration relationships on family solidarity.
HDFS 424	Family Development in an Economic Context 3 Credits	Economic conditions influencing family functioning; familial effects on the economy; strategies to enhance work-family relations.
HDFS 427	Developmental Sport & Exercise Psychology 3 Credits	Developmental changes in the antecedents and consequences of physical activity across the lifespan. HD FS (KINES) 427 Developmental Sport & Exercise Psychology (3)Change is constant with physical activity - our reaso
HDFS 428	Infant Development 3 Credits	Conceptual analysis, assessment, and empirical investigation of normal and deviant development, prenatal through first two years of life.
HDFS 429	Advanced Child Development 3 Credits	Processes of development during childhood from birth to adolescence. Emphasis upon theory, method, and empirical research.
HDFS 430	Experience in Preschool Groups 1-6 Credits/Maximum of 6	Guided practicum experience in planning and facilitating developmentally appropriate activities for young children. HD FS 430 Experience in Preschool Groups (1-6 per semester/maximum of 6) This course is intended to pro
HDFS 431	Family Disorganization: Stress Points in the Contemporary Family 3 Credits	Focuses on divorce, remarriage, incest, family violence as well as problems associated with family formation and parent-child relations.
HDFS 432	Developmental Problems in Childhood and Adolescence 3 Credits	Analysis of problems in individual development from infancy through adolescence; prevention and modification of developmental difficulties.
HDFS 433	Developmental Transition to Adulthood 3 Credits	Conceptual analysis and empirical investigation of interrelationships between developmental processes during the period of pubertal growth.
HDFS 434	Perspectives on Aging 3 Credits	An analysis of the demographic, social, and cultural factors affecting the aged population in American society.
HDFS 440	Family Policy 3 Credits	An in-depth examination of family policy. HD FS (SOC) 440 Family Policy (3)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to provide an in-depth examination of family policy. Stud
HDFS 445	Development Throughout Adulthood 3 Credits	Processes of development and change of behavior from early adulthood through old age, emphasizing theory, method, and empirical research.
HDFS 447	Issues in Gerontology 3 Credits	Analysis of major issues in adulthood and aging, with an emphasis on integration of theory and research.
HDFS 448	Death and Bereavement 3 Credits	The course takes a social and developmental perspective to illuminate an often hidden, but significant dimension of human development in the context of death-related encounters, attitudes, historical patterns, cultural variat
HDFS 451	Adoption: Policy, Practice, and Experience 3 Credits	This course introduces students to the concepts, research, and policies associated with historical and contemporary adoption practice. Topics will include adoption policies, practices, and experiences from the viewpoints of
HDFS 452	Child Maltreatment Prevention, Intervention, and Legal Issues 3 Credits	Examines causes, correlates, and consequences of child maltreatment, empirically supported prevention/intervention programs, the Child Welfare System and relevant legal issues.

HDFS 453	Family Participation and Involvement in Child Services 3 Credits	Current and historical perspectives of roles and functions of family members in designing, delivering, and evaluating of child service programs.
HDFS 455	Development and Administration of Human Services Programs 3 Credits	Fundamentals of program development and administration of human service programs in community settings; emphasis given to program content, strategies, and the overall planning process.
HDFS 465	Child Maltreatment: Prevention and Treatment 3 Credits	Advanced examination in approaches for preventing child maltreatment and treating its consequences. HD FS (CMAS) 465 Child Maltreatment: Prevention and Treatment (3) Child maltreatment, including physical abuse, sex
HDFS 467	Autism: Providing Professional Support for Individuals and Families 3 Credits	This course emphasizes the professional development for students planning to pursue careers in the field of autism. Topics include the stresses and needs of families and siblings of children with Autism Spectrum Disorders (
HDFS 469U	Family Change in the Global Economy 3 Credits	Exploration of how family life, quality, and structures in each region of the world are affected by the new global economy. HD FS 469U Family Change in the Global Economy (3) (IL) We know that family life, structure, and pra
HDFS 480	Health Disparities: Context, Causes, and Consequences 3 Credits	In this course, students will explore the role of social and physical environments on individual and familial health and well-being using a social determinant of health framework. Specifically, students will learn about and evalu
HDFS 485	Supporting Healthy Development: Understanding Systems, Successes, and Challeng 3 Credits	In this advanced, project-based course, each student will select a topic to study for an individual, semester-long project. Through interviews with people in their communities and reading academic literature, students will exa
HDFS 490	Professional Development and Preparation for Internship Experience 3 Credits	The HDFS internship experience provides students with a structured, guided opportunity to apply what they have learned in their courses to work in their chosen fields, to develop skills necessary to enter and succeed in the
HDFS 492	Palliative Care and Bereavement 3 Credits	Palliative care focuses on enhancing the quality of life for persons with life-limiting conditions and their families throughout potentially curative treatment and disease progression, through assessment and intervention method
HDFS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HDFS 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Independent study under the direction of the thesis advisor of topics related to the interests of the student, culminating in presentation of a thesis.
HDFS 495A	Internship: Advanced Experience 3-9 Credits/Maximum of 9	HD FS 495A Internship: Advanced Experience (8) HD FS 495A represents a full-time, one-semester internship experience. Its focus is experiential learning accompanied by intensive supervision, provided by one-site personn
HDFS 495B	Internship: Advanced Project 3 Credits	HD FS 495B Internship: Advanced Project (4) HD FS 495B is taken at the same time as HD FS 495A, and within a year of the pre-internship course (HD FS 490), which helps you with the details of making arrangements for th
HDFS 495C	Professional Practicum in Human Services 3-8 Credits/Maximum of 8	Guided professional practicum in human services, usually in the form of a project related to a human services issue.
HDFS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HDFS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HDFS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual of group instruction.
HDFS 499A	**SPECIAL TOPICS** 3 Credits/Maximum of 12	No description
HDFS 499B	**SPECIAL TOPICS** 3 Credits/Maximum of 12	No description
HDFS 499C	**SPECIAL TOPICS** 3 Credits/Maximum of 12	No description
HRM 494	Research Topics in HRM 1-12 Credits	Supervised student activities on research projects identified on an individual or small-group basis.
HRM 495	Internship in Human Capital Management 1-3 Credits/Maximum of 6	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
HCDD 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HCDD 113	Foundations of Human-Centered Design and Development 3 Credits	HCDD 113 provides a rigorous introduction to the theories, models, and tools that inform Human-Centered Design and Development. It lays the groundwork for subsequent courses in the sequence by examining the relations
HCDD 113S	Foundations of Human-Centered Design and Development FYS 3 Credits	HCDD 113S provides a rigorous introduction to the theories, models, and tools that inform Human-Centered Design and Development. It lays the groundwork for subsequent courses in the sequence by examining the relatio
HCDD 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HCDD 264	Design Practice in Human-Centered Design and Development 3 Credits	This course focuses on concepts, methods, techniques, and tools for designing effective technology-enabled experiences. The course will provide students with all the elements for a toolbox they can use to design and creat
HCDD 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HCDD 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
HCDD 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HCDD 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HCDD 340	Human-Centered Design for Mobile Computing 3 Credits	The course will provide students with an appreciation for the importance of mobile computing in modern life. It will also provide an introduction to the technical aspects of mobile computing including input modalities, sensors
HCDD 364W	Methods for Studying Users 3 Credits	This course focuses on concepts, methods, and techniques for studying users and evaluating technology in the context of use. It will provide students with methods and tools they can use to incorporate knowledge of users
HCDD 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HCDD 440	Human-Centered Design and Development Capstone Course 3 Credits	The Human-Centered Design and Development Capstone course develops the research orientation and creative problem solving necessary for successful careers. The capstone develops these skills in the context of a seme
HCDD 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HCDD 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
HCDD 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
HCDD 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HUM 100N	Foundations in the Humanities: Understanding the Human Experience 3 Credits	This course is an introduction to great ideas, themes, creations, and values in the arts and humanities, emphasizing the development of students' basic interpretive and close reading skills as applied to historically significant
HUM 101	Transformative Texts Part 1: Foundational Knowledge 3 Credits	This 3-credit General Humanities (GH) course with an International Cultures (IL) designate offers an introduction to transformative texts from around the world. Students will learn foundational knowledge from various discipline
HUM 102	Transformative Texts Part 2: Contemporary Issues & Practical Perspectives 3 Credits	This 3-credit General Humanities (GH) course with a United States (US) designate offers an introduction to transformative texts from the beginning of modern history to the present that address current issues in the United Sta
HUM 150N	World Mythologies in the Arts 3 Credits	This course is an interdisciplinary, cross-cultural, historical, and contemporary examination of myth as it appears in the visual arts, literature, and film. Each iteration of the course covers myths in the arts of at least several of
HUM 197N	Special Topics - InterDomain 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is a GenEd course.

HUM 200N	Explorations in the Humanities: The Quest 3 Credits	The theme of this course, Explorations in the Humanities: The Quest, is a highly flexible one used to investigate a variety of historically significant works in the arts and humanities from different perspectives-moral, social, hist
HUM 220N	Artificial Intelligence and the Human Experience 3 Credits	Explores the history of AI alongside the evolution of technology and computing. Learn to identify the industry leaders, pressures, and trends in AI development, the resources required to support AI systems, and the ethical is
HUM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
HUM 300N	Interpretations in the Humanities 3 Credits	Two to four (usually three) different interpretive approaches to understanding creative and/or scholarly works in the arts and humanities, as exemplified by the study of specific works organized by theme, topic, or time period(
HUM 400N	Expressions in the Humanities 3 Credits	Advanced interdisciplinary study of a particular theme, period, or topic including materials from various arts and humanities disciplines and interdisciplinary works. Students will identify and apply several approaches to interp
HUM 410	Religion and Culture 3 Credits	A comparative examination of several world religions in their social and cultural contexts.
HUM 430	Philosophy and Literature 3 Credits	The study of philosophical viewpoints in literature.
HUM 453	Texts and Culture 3 Credits	Study of art, literature, film, and other creative genres to illustrate the interrelationships between creative expression and cultural practices.
HUM 460	Thematic Studies 3 Credits/Maximum of 9	Analysis of a group of related ideas in art, music, literature, and/or philosophy. (May be repeated for credit.)
HUM 491	Seminar in Interdisciplinary Humanities 3 Credits/Maximum of 9	Interdisciplinary studies dealing with selected periods of world culture. (May be repeated for credit.)
HUM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HUM 495	Internship 1-6 Credits/Maximum of 6	Supervised internship for undergraduate or graduate Humanities majors in state offices, educational institutions, arts agencies, community organizations, or humanities councils.
HUM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
HUM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
HUM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
HSS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparativey narrow subject which may be topical or of special interest.
HSS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparativey narrow subject which may be topical or of special interest.
HSS 197G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is a GenEd course.
HSS 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HSS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HSS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparativey narrow subject which may be topical or of special interest.
HSS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparativey narrow subject which may be topical or of special interest.
HSS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
HSS 495	Internship 1-6 Credits/Maximum of 6	Supervised internship for undergraduate majors in the humanities, social sciences, or arts in government offices, educational institutions, arts agencies, community organizations, or humanities councils.
HSS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
HSS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
IE 100	Discover Industrial Engineering: First-Year Seminar 1 Credits	Informational First-year on Industrial Engineering as a career choice and profession; lab exercises; guest speakers; real world problems. I E 100S I E 100S Discover Industrial Engineering: First-Year Seminar (1) (FYS)The obje
IE 302	Engineering Economy 3 Credits	Principles and methods for analyzing the economic feasibility of technical alternatives leading to a decision or recommendation.
IE 304	Introduction to Service Systems Engineering 3 Credits	This course provides an introduction to service systems engineering by focusing on various modeling techniques for describing their characteristics and evaluating their productivity and performance. Students will learn desc
IE 305	Product Design, Specification and Measurement 3 Credits	Principles of product design and specifications and methods for product verification. IE 305 Product Design, Specification and Measurement (3)Product Design, Specification and Measurements a first level junior course in m
IE 306	Machining Process Design & Analysis 3 Credits	Application of Engineering Principles for the Design and Implementation of Economic and Effective Machining Processes. Machining Process Design & Analysis is an elective course within the Department of Industrial & Manu
IE 307	Additive Manufacturing Process and Reverse Engineering 3 Credits	The study and application of rapid prototyping technologies in design and manufacturing. I E 307 Additive Manufacturing Process and Reverse Engineering (3) Speed to market is an essential element of competitiveness. Ne
IE 311	Principles of Solidification Processing 3 Credits	Discussion, laboratory practices, and laboratory experiments covering principles of metal casting and joining, nondestructive testing, and nonmetallic processing.
IE 312	Product Design and Manufacturing Processes 3 Credits	Theory and principles of mechanical design specification, verification, and manufacturing. Industrial engineering majors may not schedule this course.
IE 322	Probabilistic Models in Industrial Engineering 3 Credits	The study and application of probability theory in the solution of engineering problems. I E 322 Probabilistic Models in Industrial Engineering (3)Probabilistic Models in Industrial Engineering is a first level junior course required
IE 323	Statistical Methods in Industrial Engineering 3 Credits	The study and application of statistics in the solution of engineering problems. Statistical Methods in Industrial Engineering is a second level junior course required for all the baccalaureate students in the Department of Indus
IE 327	Introduction to Work Design 3 Credits	Job analysis, cognitive and physical considerations in design of work, work measurement. Introduction to Work Design is a first level junior course required for all the baccalaureate students in the Department of Industrial an
IE 330	Engineering Analytics 3 Credits	The study and application of Computing, Information Technology and Analytics to Industrial Engineering. IE 330 Engineering Analytics (3) Engineering Analytics is a required course for all baccalaureate students in the Industr
IE 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IE 399	Foreign Studies--Industrial Engineering 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IE 402	Advanced Engineering Economy 3 Credits	Concepts and techniques of analyses useful in evaluating engineering projects under deterministic and uncertain conditions.
IE 405	Deterministic Models in Operations Research 3 Credits	Deterministic models in operation research including linear programming, flows in networks, project management, transportation and assignment models and integer programming. I E 405 Deterministic Models in Operations
IE 408	Cognitive Work Design 3 Credits	Design and evaluation of cognitive work, including the human/computer interface, visual displays, software design, and automated system monitoring, with emphasis on human performance. Cognitive Work Design is a senio
IE 418	Human/Computer Interface Design 3 Credits	Design and evaluation of the human/computer interface, including human performance, visual displays, software design, and automated system monitoring. IE 418 Human/Computer Interface Design (3) The objective of this
IE 419	Work Design - Productivity and Safety 3 Credits	Methods improvement, physical work design, productivity, work measurement; principles and practice of safety. Work Design - Productivity and Safety is a senior level course offered in the Department of Industrial and Manu
IE 424	Process Quality Engineering 3 Credits	Statistical methods for engineering process characterization and improvement. For non-Industrial Engineering majors. I E 424 Process Quality Engineering (3) This course will provide students with probabilistic and statistical
IE 425	Stochastic Models in Operations Research 3 Credits	This course will be an introduction to the modeling of stochastic systems. The student will learn about Poisson processes, Markov Chains, Dynamic Programming, and Queuing systems; both model formulations and solution
IE 427	Human Systems Networks 3 Credits	This course provides an awareness of the role of humans in systems. It builds upon a fundamental understanding of human work by situating humans within systems of other humans and things. Students will learn the fundai
IE 428	Metal Casting 3 Credits	This course is designed to provide a fundamental understanding of contemporary metalcasting science and technology principles through integrated lecture and laboratory experiences. Lectures will focus on the primary mar
IE 432	Introduction to Healthcare Systems Modeling 3 Credits	The objective of this course is to equip students with both domain knowledge about healthcare systems and the skills of applying quantitative modeling techniques for tackling application problems specific to the healthcare
IE 433	Regression Analysis and Design of Experiments 3 Credits	Theory and Application of Regression Analysis and Design of Experiments to build models and optimize process and product parameters. This is an elective course for the baccalaureate students in the Department of Industr
IE 434	Statistical Quality Control 3 Credits	Statistical techniques for univariate and multivariate monitoring of independent and autocorrelated processes; foundations of quality control and improvement. I E 434 Statistical Quality Control (3) This course is about the us
IE 435	Pricing and Demand Management 3 Credits	This course provides a broad exploration of improving profitability for organizations using revenue- and demand-based strategies. After a brief introduction to the time value of money, it investigates the topics of customer de
IE 436	Six Sigma Methodology 3 Credits	Techniques for structured problem-solving to improve the quality and cost of products and processes. I E 436 Six Sigma Methodology (3) Six Sigma is a structured, quantitative approach to improving the quality and cost of
IE 453	Simulation Modeling for Decision Support 3 Credits	Introduction of concepts of simulation modeling and analysis, with application to manufacturing and production systems. I E 453 Simulation Modeling for Decision Support (3)Simulation Modeling for Decision Supportis a ser
IE 456	Industrial Robot Applications 3 Credits	Introduction to robotics, with emphasis on robot selection, programming, and economic justification for manufacturing applications. I E 456 Industrial Robot Applications (3)This course is a technical elective, and is normally
IE 458	Manufacturing and Design of Nano Devices 3 Credits	This is an advanced undergraduate course on the manufacturing and design of advanced devices at the nano- or micro-scale. The topic covers many disciplines in engineering and science, including: nanotechnology, nanom
IE 460	Service Systems Engineering 3 Credits	Use of quantitative models and methods for analysis, design and control of service systems. I E 460 Service Systems Engineering (3) This course focuses on using operations research methods such as mathematical prograr

IE 466	Concurrent Engineering 3 Credits	Concurrent engineering methods for product/process development, capturing customer requirements, insuring manufacturability and serviceability.
IE 468	Optimization Modeling and Methods 3 Credits	Mathematical modeling of linear, integer, and nonlinear programming problems and computational methods for solving these classes of problems. I E 468 Optimization Modeling and Methods (3) This course provides an anal
IE 470	Manufacturing System Design and Analysis 3 Credits	Contemporary design and analysis methodologies used to organize systems for economic manufacture of products. IE 470 Manufacturing System Design and Analysis (3)Manufacturing System Design and Analysisis a senic
IE 475	Modeling and Optimization of Stochastic Service Systems 3 Credits	This course will cover the analysis, modeling, optimization, and evaluation of practically occurring service systems. The first part of the course will employ a queueing-theoretic approach for modeling service systems, which v
IE 478	Retail Services Engineering 3 Credits	Objective of this course is to understand modern retail industry with focus on their operations and information technologies. The course starts with an overview of the basic types of retailing, their channels, and economics of
IE 479	Human Centered Product Design and Innovation 3 Credits	Consumer product design for a global market, incorporating human factors principles and user desires in a multicultural perspective. EDSGN (I E) 479 Human Centered Product Design and Innovation (3)This course will focus
IE 480W	Capstone Design Project 3 Credits	Industry-based senior capstone design project emphasizing manufacturing systems, service systems, and information systems in an interdisciplinary setting. I E 480W Capstone Design Project (3) Students will develop 'real
IE 494	Senior Honors Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course.
IE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
IE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
IE 499	Foreign Studies--Industrial Engineering 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IET 101	Manufacturing Materials, Processes, and Laboratory 3 Credits	Mechanical properties of materials; primary processing methods used in manufacturing; ferrous and nonferrous metals; important plastic plus ceramic materials; dimensional verification and measurements; mechanical prope
IET 215	Production Design 2 Credits	The study of manufacturing processes for the purpose of part creation and/or part feature creation using both current and advanced technologies.
IET 216	Production Design Laboratory 2 Credits	Laboratory methods in production design including conventional and advanced manufacturing processes, computer applications, and automation/robotics.
IET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
IET 308	Statistical Quality Control 3 Credits	Fundamentals of probability and statistics, introduction to quality control fundamentals, control charts, acceptance sampling.
IET 311	Elements of Metallurgy 3 Credits	Introduction to metallurgical concepts, metallurgical testing, phase diagram studies, heat treating concepts, ferrous and nonferrous systems.
IET 321	Manufacturing Processes 3 Credits	Manufacturing processes for producing metal, plastic, and ceramic items. Primary emphasis is placed on machine tool processes.
IET 333	Engineering Economics for Technologists 2 Credits	Fundamentals of engineering economics; equivalence and rate of return analysis; replacement models; depreciation and tax considerations; and economic decision making for technologists.
IST 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IST 110	Information, People and Technology 3 Credits	Information, People and Technology presents the high points of an education in the College of Information Sciences and Technology. It opens an intellectual journey through the ideas and challenges that IT professionals face
IST 111	Seminar in IST 1 Credits	Introduction to academic requirements, career planning & information literacy for students majoring in College of IST. IST 111 Seminar in IST (1)IST 111 introduces the student to the academic requirements, career planning a
IST 111S	Seminar in Information Sciences and Technology 1 Credits	Introduction to academic requirements, career planning, and information literacy for students majoring in the College of Information Sciences and Technology. IST 111S Seminar in IST (1) IST 111S introduces the student to t
IST 130	Emerging Technologies in Popular Culture 3 Credits	A survey course that explores emerging technologies used to produce and consume popular cultural artifacts. Through individual and team-based learning activities, students will analyze and interact with information and cor
IST 140	Introduction to Application Development 3 Credits	A first course in concepts and skills for application development. Math 22 is recommended as preparation for IST 140. This is a first course in application development. Applications are computer programs developed to supp
IST 144N	Invasion of Technology from a 21st Century Perspective 3 Credits	The Invasion of Technology from a 21st Century Perspective introduces students to the world of technology from a humanistic point of view. Students will embark on a journey starting in the early 20th century to explore tech
IST 170N	What is Information? 3 Credits	"What is Information?" considers the material and social nature of information in historical and contemporary contexts. How has information been managed and valued? How have information infrastructures served as sites o
IST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 197G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is a GenEd course.
IST 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IST 210	Organization of Data 3 Credits	Introduction to concept of databases including the storage, manipulation, evaluation, and display of data and related issues. IST 110 is recommended as preparation for IST 210. IST 210 Organization of Data (3) As the databa
IST 220	Networking and Telecommunications 3 Credits	Introduction to digital network topologies; transmission media, signal modulation, digital packet switching and routing, systems integration, communications management, and security. IST 110 is recommended as preparatio
IST 222H	Community Informatics 3 Credits	This course combines theory and practice to help students develop a contextualized understanding of community as a conceptual lens for understanding human history and human experience. This course examines the histo
IST 225	PC Hardware Basics 3 Credits	Preparation for PC hardware support: Students learn data recovery and how to build, configure, upgrade, troubleshoot, diagnose, and repair PC's. IST 225 PC Hardware Basics (3) IST 225 covers materials needed to prepare
IST 226	Networking Essentials 3 Credits	Concepts for peer-to-peer and server-based network:International Organization for Standardization-Open Systems Interconnection (ISO-OSI) reference model, industry standards, troubleshooting, performance monitoring, an
IST 227	Network Administration 3 Credits	Administering peer-to-peer and client/server networks: Planning, installation, server configuration, resource management, remote access, performance monitoring, and optimization. IST 227 Network Administration (3) IST 22
IST 228	Advanced Network Administration 3 Credits	TCP/IP planning, installation, configuration: IP addressing, subnetting, routing, Dynamic Host Configuration Protocol (DHCP), Windows Internet Naming Service (WINS), address/name resolution, Domain Name System (DNS)
IST 230	Language, Logic, and Discrete Mathematics 3 Credits	Introduction to formal languages, mathematical logic, and discrete mathematics, with applications to information sciences and technology. IST 230 Language, Logic, and Discrete Mathematics (3) IST 230 is one of the five in

IST 234N	Digital Cultures 3 Credits	This introductory course will combine theory and practice to help students develop a rich understanding of the constantly evolving US digital culture. We will survey a variety of information and communication technologies (I(
IST 235	Gender and the Global Information Technology Sector 3 Credits	Integrates information technology and gender studies. Overview issues and socio-cultural shaping of gender in the IT field.
IST 237	Digital Entrepreneurship 3 Credits	The proliferation of new IT combined with the reach of the Web, Internet, and mobile devices is opening up new possibilities for individuals and companies to leverage IT to create new digital businesses. This course provides
IST 240	Introduction to Computer Languages 3 Credits	Introduction to the specification and application of languages and language paradigms that interact with computers. IST 240 is one of two courses added to the three core courses for the associate degree program to form th
IST 242	Intermediate & Object-Oriented Application Development 3 Credits	Intermediate application development including algorithms, data structures, and object-oriented concepts. IST 242 Intermediate & Object-Oriented Application Development (3) This is a second course in application develop
IST 250	Introduction to Web Design and Development 3 Credits	Introduction to how the World Wide Web utilizes emerging technologies. Students acquire conceptual and practical understanding of constructing Web sites. IST 110 is recommended to be taken before or at the same time a
IST 256	Programming for the Web 3 Credits	IST 256 will provide students with the knowledge and skills to create both basic and more dynamic web-based content pages and applications. The course will first focus on acquiring competencies in core web development
IST 260W	Introduction to Systems Analysis and Design 3 Credits/Maximum of 3	Introduction to systems analysis and design, stressing the process of requirements acquisition, specification, design, and implementation. IST 260W Introduction to Systems Analysis and Design (3)IST 260W is an introducto
IST 261	Application Development Design Studio I 3 Credits	Introductory design and development studio course for IST and SRA students. IST 261 Application Development Design Studio I (3) This studio course will provide opportunities for students to practice the technical skills ac
IST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
IST 295A	Distributed Team Project 1-3 Credits/Maximum of 3	IST 295A Distributed Team Project (3) This course offers a web-based distributed project that simulates an internship of a student in a company. Faculty gather information system design projects from industry or units within
IST 295B	IST Internship 1-3 Credits/Maximum of 3	IST 295B IST Internship (1-3) This course is offered as an internship for a student within a company. Faculty and industry collaborate to specify the duties of the intern. The faculty member responsible for the course then app
IST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
IST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IST 301	Information and Organizations 3 Credits	Overview of organizational structures and functions. Includes information processing and analytic perspectives of organizations. IST 301 Information and Organizations (3) This course provides students the opportunity to lea
IST 302	IT Project Management 3 Credits	Exploration and application of the basic concepts, methodologies, and tools of project management in the field of information sciences and technology. IST 302 IT Project Management (3) This course is designed to introduc
IST 310	Digital Media Metrics 3 Credits	Analysis of audience data for traditional and new media to create metrics for advertising, content marketing and audience analysis. COMM (IST) 310 Digital Media Metrics (3) The emergence of a converged marketplace whe
IST 311	Object-Oriented Design and Software Applications 3 Credits	Introduction to object-oriented applications including applications in an Object Oriented Design (OOD) language or OOD languages. IST 311 Object-Oriented Design and Software Applications (3) IST 311 is among the cours
IST 331	Foundations of Human-Centered Design 3 Credits	Interdisciplinary survey of topics and methods related to the human-centered design use and usability of information systems. IST 331 Foundations of Human-Centered Design: User and System Principles (3) This course pr
IST 337	Technologies for Digital Entrepreneurs 3 Credits	This course introduces the student to the applications, technologies, and tools for entrepreneurs engaging in or considering engaging in a start-up or running a small-to-medium size business. Although there will be some cor
IST 361	Application Development Design Studio II 3 Credits	Second of two design and development studio courses for IST and SRA students. IST 361 Application Development Design Studio II (3) This studio course will provide opportunities for students to practice technical skills ac
IST 389	Leadership and Technology for Instruction 1-4 Credits	Leadership in college instructional settings; teaching and learning principles; instructional technologies; and best practices in coaching, team facilitation, learning assessment. This course prepares undergraduate students fo
IST 390	Introduction to Professional Development 1 Credits	Interdisciplinary course to introduce students to the issues, concepts and skills involved in successfully transitioning into professional life. IST 390 Introduction to Professional Development (1) IST 390 focuses on introducing
IST 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 398	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IST 402	Emerging Issues and Technologies 3 Credits/Maximum of 9	Introduction to emerging issues, technology forecasting and analysis; overview of emerging issues and leading technologies in IST and how they impact information systems, users, the IT labor force and society. IST 402 Em
IST 411	Distributed-Object Computing 3 Credits/Maximum of 3	Introduction to distributed-object computing and its use in client/server and real-world computing applications. This course presents the fundamental concepts of distributed-object computing, including client/server compu
IST 412	The Engineering of Complex Software Systems 3 Credits/Maximum of 3	Introduction to the engineering of complex software systems including software system specification, design and implementation, integration and test, and evolution. IST 412 The Engineering of Complex Software Systems (
IST 413	Usability Engineering 3 Credits	This course addresses activities in the system development process that ensure usability. It considers the emerging concept of usability, requirements gathering and analysis, activity design, information design, interaction de
IST 420	Fundamentals of Systems and Enterprise Integration 3 Credits	Introductory course on integration of information technology into different venues, including the planning, development, and implementation of the integration. IST 420 Fundamentals of Systems and Enterprise Integration (3)
IST 421	Advanced Enterprise Integration: Technologies and Applications 3 Credits	Advanced course on the integration of information technology into systems applications. IST 421 Advanced Enterprise Integration: Technology and Applications (3) IST 421 expands the knowledge gained in IST 420 on the th
IST 422	Enterprise Architecture Foundations 3 Credits	Theoretical foundations and practice of enterprise architecture. IST 422 Enterprise Architecture Foundations (3) Enterprise Architecture is the overall framework and set of strategic objectives for the usage of technology over
IST 423	Enterprise Information Management and Storage Architecture 3 Credits	Provide in-depth study of the concepts, issues, and technologies associated with the complex world of enterprise information and storage architecture. IST 423 Enterprise Information Management and Storage Architecture
IST 424	Architectural Modeling of Organizations 3 Credits	Theoretical foundations and practice of enterprise modeling. IST 424 Architectural Modeling of Organizations (3) Enterprise Architecture is the overall framework and set of strategic objectives for the usage of technology ove
IST 425	New Venture Creation 3 Credits	Via problem-based learning, students define new business ventures to meet current market needs, develop business models, and present to various stakeholders. The goal of New Venture Creation is to better prepare underg
IST 426	Invention Commercialization 3 Credits	Working with Penn State inventions selected by the Intellectual Property Office, student teams define an optimum commercialization path each technology. ENGR 426ENGR (MGMT/IST/ENTR) 426 Invention Commercializati
IST 431	The Information Environment 3 Credits	Survey of social environment of information technology themes: Community, sovereignty, privacy, ethics, economics, and knowledge management. IST 431 The Information Environment (3) The ways that people communicat
IST 432	Legal and Regulatory Environment of Information Science and Technology 3 Credits	Legal environment of information technology, constitutional/political issues, intellectual property, management, e-commerce, privacy, access, computer contracting, cyberspace regulation. IST 432 Legal and Regulatory Envi
IST 437	Digital Design & Innovation 3 Credits	This course introduces students to design thinking, user-driven innovation and user experience, and business model implementation issues for IT-driven innovation. IST 437 Digital Design & Innovation (3) IT-driven innovation
IST 440W	Information Sciences and Technology Integration and Problem Solving 3 Credits	Problem-based approach to technology integration by focusing on real-life problems faced by an organization. IST 440W Information Sciences and Technology Integration and Problem Solving (3) This course is the undergra
IST 442	Information Technology in an International Context 3 Credits	International concepts to improve strategies for the design, dissemination, and use of information technology. IST 442 Information Technology in an International Context (3) (IL) IST 442 focuses on the implications of the inte
IST 445	Globalization Trends and World Issues 3 Credits	This course covers trends in globalization and their influence on U.S. policy making as well as the role of the U.S. in international issues.
IST 446	An Introduction to Building Computer/Video Games 3 Credits	An interdisciplinary course that introduces students to process and techniques involved in developing a video or computer game. IST 446 An Introduction to Building Computer/Video Games (3) The course is project driven.
IST 450	Digital Advertising 3 Credits	Digital advertising has transformed many industry activities related to buying and delivering advertising. Information technology and big data have revolutionized the way media and content providers interact and negotiate wi
IST 450A	Digital Campaigns 3 Credits/Maximum of 3	This project-oriented course provides students with the knowledge and skills necessary to conduct sponsored advertising-based marketing campaigns. This course offers students an opportunity to gain knowledge and hanc
IST 451	Network Security 3 Credits	Fundamental issues and concepts of network security, network security technologies and protocols, and emerging technologies in network security. IST 451 Network Security (3) Information technology has become a key co
IST 452	Legal and Regulatory Environment of Privacy and Security 3 Credits	Exploration of legal, regulatory, public policy, and ethical issues related to security and privacy for information technology professionals in public institutions, private enterprise, and IT services. IST 452 Legal and Regulatory E
IST 453	Legal, Regulatory, Policy Environment of Cyber Forensics 3 Credits	Legal, regulatory and public policy environment of computer and network forensics that constrain investigatory and monitoring activities in computer and network environments. IST 453 Legal, Regulatory, Policy Environment
IST 454	Computer and Cyber Forensics 3 Credits	Fundamental issues and concepts of computer forensics; aspects of computer and cyber crime; methods to uncover, protect, exploit, and document digital evidence; tools, techniques, and procedure to perform computer ar
IST 456	Information Security Management 3 Credits	Contemporary Security Issues; security management processes, architecture and models; risk analysis and management; security planning, analysis and safeguards; security policies development and administration; conting
IST 461	Database Management and Administration 3 Credits	Introduces advanced topics in database management systems that are fundamental to effective administration of enterprise information systems. IST 461 Database Management and Administration (3) The objective of the c
IST 489	Research Methods for the Information Sciences and Technology 3 Credits	Seminar course focused on approaches to studying information and communication technologies and writing theses and other research reports. IST 489H Research Methods for the Information Sciences and Technology (3)

IST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
IST 494H	Honors Thesis Research 1-12 Credits/Maximum of 12	This course is the mechanism by which students in the Schreyer Honors College who are conducting research with a faculty member affiliated with the IST undergraduate major will register for thesis credits. The course inclu
IST 495	Internship 1-18 Credits/Maximum of 18	Supervised on or off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
IST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
IST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
IST 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ITECH 495	Internship 0.5-3 Credits/Maximum of 3	Supervised on or off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of the student activities is required. ITECH 495 is offered as an internship for a student within a
IEC 100	Introduction to Social Implications of Information Technology 3 Credits	This course introduces students to critical perspectives on emerging information technologies, including data systems, artificial intelligence (algorithms), and security technologies. It provides a forum for critical analysis of the
IEC 200	A Critical Theory Perspective on Information Technology and Design 3 Credits	This course introduces students to critical perspectives on design in order to promote a more just and equitable society. Students learn about the roles designers play in shaping the systems that ameliorate and exacerbate in
IEC 300	Socially Responsible Information Management 3 Credits	Management of data and information are central to all organizations, whether public, private, governmental or civil society. As distinct from IT management, information management encompasses practices and policies focu
IEC 320W	Information and Ethics 3 Credits	This course introduces students to the conceptual foundations of Information Ethics. It starts by discussing what information is and what is called the information revolution. We address the different approaches to Informatio
INSYS 433	Teaching and Learning Online in K-12 Settings 3 Credits/Maximum of 3	Explores uses of online technologies for K-12 settings including cybercharter and blended settings. In this course, Teaching and Learning Online for K-12 Educators, students will receive an overview of the current status of K
INART 1	The Arts 3 Credits	The Arts is a course designed to give students an integrative experience of the themes and purposes common among the arts, visual, performing, and literary. Students are given the opportunity to view and discuss many for
INART 3	Reception of the Arts 3 Credits	This course considers how art uses time, space, and causality to define culture and the human condition. INART 003 Reception of the Arts (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. INART 00
INART 5	Performing Arts 3 Credits	INART 5 is not an "art appreciation" course in any traditional sense of the term. Rather, it is focused on the act of experience and the encouragement of critical thinking about those experiences. No effort is made to encourag
INART 10	The Popular Arts in America: Mass Media Arts 3 Credits	An introduction to the arts of the mass media with emphasis on how film, radio, television, and the print media influence and reflect society. INART 010 The Popular Arts in America: Mass Media Arts (3) (GA)(BA) This course n
INART 15	The Popular Arts in America: Performing Arts 3 Credits	The development of the performing arts of American popular culture; emphasis on popular music, dance, theatre, and variety arts. INART 015 The Popular Arts in America: Performing Arts (3) (GA)(BA) This course meets the
INART 50	The Science of Music 3 Credits	Waves, physics of sound, hearing, musical scales, musical instruments, and room acoustics. INART 050 The Science of Music (3) (GN)(BA) This course meets the Bachelor of Arts degree requirements. This course explores th
INART 55N	History of Electronic Music 3 Credits	This course investigates how technology and music developed in parallel from the start of the twentieth century to the present. It explores the international cultural movements, technological developments, and music trends
INART 100	Seminar in Integrative Arts 3 Credits	A study of various arts with emphasis on comparison, contrast, and other aspects of interrelation. Topics will change each semester. INART 100 Seminar in Integrative Arts (3) (GA)(BA) This course meets the Bachelor of Arts
INART 100W	Seminar in Integrative Arts 3 Credits	A study of various arts with emphasis on comparison, contrast, and other aspects of interrelation. Topics will change each semester. INART 100W Seminar in Integrative Arts (3) (GA)(BA) This course meets the Bachelor of A
INART 110	The Dramatic Arts in the Mass Media 3 Credits	The place of television-radio-film drama in our culture; relationship with other art forms; standards of evaluation. INART 110 Dramatic Arts in the Mass Media (3) (GA)(BA) This course meets the Bachelor of Arts degree require
INART 115	The Popular Arts in America: Popular Music 3 Credits	An examination of the roots, development, and significance of popular music in our culture. INART 115 The Popular Arts in America: Popular Music (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. IN
INART 116	The Popular Arts in America: The History of Rock and Roll-The 1950s 3 Credits	This course examines the roots, development, and significance of rock and roll music in its first decade. INART 116 INART 116 The Popular Arts in America: The History of Rock and Roll-The 1950s (GA;US)(BA) This course r
INART 125	The Popular Arts in America: The History of Rock and Roll - Punk Rock 3 Credits	An examination of the roots, development, and significance of punk rock in our culture. INART 125 The Popular Arts in America: The History of Rock and Roll - Punk Rock (3) (GA;US;IL)(BA) This course meets the Bachelor o
INART 126N	The Popular Arts in America: The History of Hip-Hop 3 Credits	Hip-hop is an important and historically significant genre in popular music that initially began in the South Bronx in the early 1970s and has grown to become one of the most influential, controversial, and important genres to

INART 141N	African American Read-In Engaged Learning Experience 1-3 Credits/Maximum of 6	This course will allow students to study African American literature, culture, history, and arts in connection with an annual public event, the African American Read-In (AARI). The AARI, promoting literacy and appreciation of A
INART 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INART 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INART 200	The Popular Arts in America: Elvis Presley - The King of Rock and Roll 3 Credits	The significance and influence of Elvis Presley as an artist and cultural force focusing on his recordings and major performances. INART 200 The Popular Arts in America: Elvis Presley - The King of Rock and Roll (3) (GA)(BA)
INART 203Q	Medievalism 3 Credits	In English 190Q / INART 203Q students will gain an understanding of medievalism, defined by Leslie J. Workman in 1987 as "the study of the Middle Ages, the application of medieval models to contemporary needs, and the
INART 205	Introducing the Beatles 3 Credits	The influence and achievement of the Beatles as artists focusing on their recordings and films as sociocultural artifacts. INART 205 Introducing the Beatles (3) (GA)INART 205 is composed of eight unites of study that trace th
INART 205H	Introducing the Beatles 3 Credits	The influence and achievement of the Beatles as artists focusing on their recordings and films as sociocultural artifacts.
INART 220	Stand-Up Comedy: A Cultural History 3 Credits	An American cultural history from mid-19th through mid-20th Century as seen through the prism of stand-up comedy. INART 220 Stand-Up Comedy: A Cultural History (3) (GA;US)(BA) This course meets the Bachelor of Arts
INART 226N	Critical Approaches to Hip-Hop 3 Credits	This course will examine the politics of hip-hop art and culture. To do so, we will place hip-hop in broad historical context and trace its aesthetic and cultural roots from Africa to Jamaica to 1970s New York City and then forw
INART 236	Integrating Music and Animation with Technology 3 Credits	An introduction to the theory, design and creation of musical animations. For general students.
INART 258A	Fundamentals of Digital Audio 3 Credits	A thorough introduction to digital music production technologies, covering fundamentals of how digital musical information is stored, processed and transmitted. INART 258A Fundamentals of Digital Audio (3) (GA)(BA) This c
INART 258B	Fundamentals of Digital Audio 1 Credits	A general overview of music technologies current to music educators and performers, as defined by their accrediting organization. This course is meant for students who do not intend to pursue further studies in music techn
INART 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
INART 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
INART 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INART 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
INART 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INART 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INART 410	Early Pennsylvania Decorative Arts and Furniture 3 Credits	The study of Pennsylvania and related furniture, pottery, paintings, and decorative arts of the seventeenth, eighteenth, and early nineteenth centuries. INART (AM ST) 410 Early Pennsylvania Decorative Arts and Furniture (3)(
INART 415	Nineteenth Century Pennsylvania Architecture and Restoration 3 Credits	Interior and exterior design of early Pennsylvania architecture; understanding and evaluation of and experience in restoration. INART (AM ST) 415 Nineteenth Century Pennsylvania Architecture and Restoration (3)(BA) This co
INART 420W	Portfolio Matters: Integrative Arts Capstone 3 Credits	INART 420W: Portfolio Matters is the writing-intensive capstone course for the Integrative Arts degree. The course is based on the application of integrated learning to complex life and career questions through assignments t
INART 494	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
INART 494H	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
INART 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
INART 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an indivdual basis and which fall outside the scope of formal courses.
INART 496H	Independent Studies - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an indivdual basis and which fall outside the scope of formal courses.
INART 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INART 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
INART 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ISB 207	Integrating Science and Business 1 Credits	This course is designed to bring together second and third year ISB majors to discuss in-depth the Interdisciplinary Science and Business (ISB) major. ISB students are required to select one science module and one busines
ISB 475W	Strategic Integration of Science & Business 3 Credits	This course will provide a capstone experience for the Interdisciplinary Science and Business BS degree. The tools of strategic management and cross-functional collaboration will be introduced and serve as a background fo
ISB 495	Internship 1-18 Credits/Maximum of 18	Supervised field experience related to the student's major.
INTAG 100N	Everyone Eats: Hunger, Food Security & Global Agriculture 3 Credits	How does reduced rainfall impact the lives of people growing coffee in Hondur... and immigration in the USA? How does increasing consumption of meat in China influence deforestation of the Amazon Rainforest? How do su
INTAG 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INTAG 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
INTAG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INTAG 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

INTAG 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INTAG 300	Tropical Agriculture and Food Systems 3 Credits	The primary goal of this course is to inform students about tropical agriculture, including the environments of tropical agroecosystems, the production of crops, livestock and forestry within these systems, and major farming s
INTAG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INTAG 398	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INTAG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INTAG 460	International Food Production 1 Credits/Maximum of 3	FDSC 460 / INTAG 460 is designed to give food science undergraduate and graduate students an appreciation of how food is produced and processed abroad. Students participate in a number of production facility tours, int
INTAG 470A	Comparing Agricultural and Food Systems in the US and France: Lecture 2.5 Credits	This course is designed to explore key similarities and differences in the food and agricultural systems of the United States and France. It introduces students to a number of overarching food and agricultural topics that perta
INTAG 470B	Comparing Agricultural and Food Systems in the United States and France: Travel 0.5 Credits	Explore key differences and similarities in the food and agricultural systems of the United Sates and France. INTAG 470B / AGBM 470B Comparing Agricultural and Food Systems in the US and France: Travel (0.5) This cours
INTAG 490	Senior Seminar in International Agriculture 3 Credits	Seminar discussions on contemporary topics in global agriculture; capstone course for INTAG minor. INTAG 490 Senior Seminar in International Agriculture (3) This course is designed to meet the need for a capstone course
INTAG 495	Internship in International Agriculture 1-13 Credits	Observation of and participation in the operation and management of a University-approved international agricultural firm or international agricultural development agency.
INTAG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
INTAG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INTAG 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
INTAG 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IB 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IB 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
IB 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore in depth, a comparatively narrow subject interest.
IB 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IB 303	International Business Operations 3 Credits	A survey of the major aspects of international business environment and operations with an emphasis on the cultural dimension. I B 303 International Business Operations (3) (IL) International business is important and neces
IB 350	International Business Law 3 Credits	International Business Law examines the framework and systems of international law, including: world legal systems, international commercial disputes, contracts, banking and trade regulation, European Union law, the Worl
IB 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparativey narrow subject which may be topical or of special interest.
IB 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IB 403	International Business and National Policies 3 Credits	Evaluation of national economic policies in the light of international economic theory; their impacts on operations of the international business firm. IB 403 International Business and National Policies (3) IB 403 integrates ma
IB 404	Contemporary Issues in International Business 3 Credits	Investigation of issues in international business practice interpreted from the foundations of the social sciences. Topics will be chosen from contemporary issues in global business and economics. I B 404 Contemporary Issu
IB 440	Globalization and Its Implications 3 Credits	This course explores the socioeconomic implications of globalization.
IB 450	The Business Enviornment of Europe 3 Credits	This course provides an overview of the economic, institutional, and regulatory environment in Europe at the EU and national levels. IB 450 The Business Environment of Europe (3) This course provides an overview of the bus
IB 460	International Business in Emerging Nations 3 Credits	An overview of international business strategies and economic environments of emerging nations with a specific focus on markets in China, India, and Southeast Asia.
IB 464	International Logistics 3 Credits	This course will examine the logistics function and the unique requirements of the movement of products internationally. To effectively maneuver in today¿s global marketplace, a mastery of the international logistics function
IB 470	International Development in an African Context 3 Credits	This course looks at international development from an African perspective and discusses the prospects for African economic growth in the 21st Century. With an understanding of historical events that have shaped the politi
IB 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
IB 494H	Honors Research Project 1-3 Credits/Maximum of 6	Supervised honors student research projects identified on an individual or small-group basis.
IB 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
IB 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore in depth, a comparatively narrow subject interest.
IB 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
INTST 100	Introduction to International Studies 3 Credits	An introductory multidisciplinary course designed to familiarize students with critical international issues. INTST 100 Introduction to International Studies (3) (GS;IL)(BA) This course meets the Bachelor of Arts degree requirem
INTST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
INTST 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
INTST 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written or oral critique of activity required.
INTSP 295B	Internship in Business & Engineering 1-6 Credits/Maximum of 6	ALT 295B Internship in Business & Engineering (1-6) Individual exploration of practical applications of a field of study through a supervised work experience. Final analytic paper, essays, journals and oral presentation as requi
INTSP 295C	Internship in Education, Human Development, & Social Sciences 1-6 Credits/Maximum of 6	ALT 295C Internship in Education, Human Development, & Social Sciences (1-6) Individual exploration of practical applications of a field of study through a supervised work experience. Final analytic paper, essays, journals a
INTSP 370	Internship Preparation 1 Credits	Planning and preparation for upper-level or capstone internship experience, suited to students' individual academic and career interests. ALT 370 Internship Preparation (1) Planning and preparation for upper-level or capstor
INTSP 495	**SPECIAL TOPICS** 1-6 Credits/Maximum of 6	ALT 495A Internship in Business for non-Business Students (1-6) Individual exploration of the application of a non-business field of study in a business-related setting. Final analytic paper, essays, journals and oral presentatic
IT 1	Elementary Italian 1 4 Credits	Elementary Italian I (4 credits) is for students who have not previously studied the Italian language. The course provides an introduction to the written and spoken language through a variety of exercises. Information is also pr
IT 2	Elementary Italian 2 4 Credits	Elementary Italian 2 (4 credits) is for students who have successfully completed IT 001 (or equivalent). The course continues the introduction to the written and spoken language in IT 001 through a variety of exercises. Inform
IT 3	Intermediate Italian 4 Credits	This course (4 credits) is designed for students who have successfully completed Italian 001 and 002 at Penn State, or the equivalent level at another university, or who have taken four or more years of high school Italian. The
IT 10	Intensive Elementary Italian 6 Credits	Intensive Beginning Italian is equivalent to IT 001 and half of IT 002. This course is intended for students with no experience of Italian and provides an intensive language-learning environment in which to complete 6 credits o
IT 20	Intensive Intermediate Italian 6 Credits	Intensive Intermediate Italian is equivalent to the second half of IT 002 and IT 003. The course is for students who have successfully completed IT 010 Intensive Elementary Italian and who seek an intensive learning environm
IT 50	Italian Conversation Tutorial 1-3 Credits/Maximum of 3	Roundtable conversation practicum for students concurrently enrolled in IT 001, 002, 003, 010, or 020. May be repeated up to 3 times for credit. IT 050 Italian Conversation Tutorial (1-3)(BA) This course meets the Bachelor o
IT 51	Elementary Intensive Italian for Graduate Students I 3 Credits	Intensive introduction to Italian: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. IT 051 Elementary Intensive Italian for Graduate Students I (3)This is the first in a s
IT 52	Elementary Intensive Italian for Graduate Students II 3 Credits	Intensive introduction to Italian: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. IT 052 Elementary Intensive Italian for Graduate Students II (3)This is the secor
IT 53	Intermediate Intensive Italian for Graduate Students 3 Credits	Continued intensive study of Italian at the intermediate level: reading, writing, speaking, listening, cultural contexts. IT 053 Intermediate Intensive Italian for Graduate Students (3)This is the third in a series of three courses de

IT 83	First-Year Seminar in Italian Literature, Film, and Culture 3 Credits	Introduction to the study of Italian literature and culture. IT 083S First Year Seminar in Italian Literature, Film, and Culture (3) (GH;IL)(BA) This course meets the Bachelor of Arts degree requirements. The first-year seminar will
IT 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IT 130	Italian Culture and Civilization 3 Credits	IT 130, Italian Culture and Civilization, examines Italian life from antiquity to the present. It is designated an International Cultures course, which aims to develop critical and analytical skills of undergraduate students through a
IT 131	Introduction to Italian American Culture 3 Credits	Between 1870 and 1920 over five million Italians immigrated to the United States. Of those who came, about one-third returned to Italy. Those who remained, often joined by their families, left an indelible mark on the America
IT 140	Italian Language & Culture for Study Abroad 3 Credits	IT 140 prepares students for study abroad in Italy through contact with language and customs and through the inclusion of pragmatic information and cultural intelligence/sensitivity. IT 140 splits equal classroom time betwee
IT 175	Italian Language and Culture for Embedded Experiences Abroad 3 Credits	IT175 Italian Language and Culture for Embedded Experiences Abroad, is designed for students who have little or no knowledge of Italy's language and culture. This course is linguistic and cultural preparation for students pa
IT 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
IT 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IT 210N	Multilingual and Intercultural Communication 3 Credits/Maximum of 6	SPAN 210N Multilingual and Intercultural Communication course will showcase the fundamental components of the intersection of language and culture through humanities and social science. The purpose of this course is to
IT 225N	Organized Crime in Film and Society 3 Credits	IT 225N / CRIM 225N, Organized Crime in Film & Society, examines the relationship between criminological and justice theories regarding organized crime and the portrayal of the mafia in popular Italian American film. The co
IT 240Q	Artistic Patronage in Europe 3 Credits	This course surveys the institutions and social networks in which European fine arts were created, consumed and critiqued. Beginning with the medieval period and ranging to the early 20th century, the course will examine th
IT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
IT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
IT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
IT 301	Advancing Italian in Context 3 Credits	IT 301 serves as a bridge between intermediate language courses (IT 3/20) and 300- and 400-level Italian courses. This language course begins with a review of grammar basics and includes intermediate and advanced topic
IT 310	Advancing Conversation 3 Credits	Focusing on intensive oral communication practice, this course is designed to bolster student self-confidence in the use of advanced intermediate speaking skills through vocabulary development, presentations, and oral pra
IT 320	Global Italy: An Introduction to Italian Culture 3 Credits	This course focuses on cultural, historical, and sociopolitical issues of Italy, with a particular emphasis on contemporary current events, and by utilizing advanced grammatical tools. Students will be exposed to authentic mat
IT 325	Italy's Inspiration for Your Life 3 Credits	In this highly interdisciplinary course taught in Italian, students take cues from a selection of Italy's great examples of literature, art, music, science and innovation, design and artisanal goods, political change, etc., to explore
IT 330W	Greatest Books of Italian Literature 3 Credits	A survey of the greatest books of Italian literature (prose, poetry, drama). Time period varies each semester. In Italian. IT 330W Greatest Books of Italian Literature (3) This course is a survey of the greatest books of Italian lite
IT 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
IT 399	Foreign Study--Italian 1-12 Credits/Maximum of 12	Advanced training in Italian language skills.
IT 412	Theory and Practice of Translation 3 Credits	Advanced practicum in Italian explores the technical, artistic, and practical applications of translation between Italian and American cultures. IT 412 Theory and Practice of Translation (3)(BA) This course meets the Bachelor o
IT 415	Dante 3 Credits	Students read and discuss in Italian selections from Dante Alighieri's Divine Comedy with special consideration of the biographical, historical, political, literary, and/or theological ramifications of the poetic masterpiece, and w
IT 422	Topics in the Italian Renaissance 3 Credits	Topics vary by year and may include "Theories of Love," "Magic, Witchcraft, Alchemy, and the Emergence of Modern Science," etc. IT 422 Topics in the Italian Renaissance (3)(BA) This course meets the Bachelor of Arts deg
IT 430	Italian Children's Literature 3 Credits	This course, conducted in Italian, examines Italian children's books from the post-unification period (1880s) to the present day.
IT 450	Nineteenth-Century Italian Literature 3 Credits	Italian romanticism, Verismo and neoclassicism, their origin and development in the novel, poetry, and drama.
IT 460	Twentieth-Century Italian Literature 3 Credits	Modern and contemporary Italian prose, drama, and poetry.
IT 470	Ghosts and Otherworldly Visions in Italy c. 1300-1600 3 Credits	This course explores ghost storytelling and visions of the afterlife in early Italian literature and culture. Motivations for telling ghost stories go far beyond entertaining or inducing fear in an audience. Ghost stories can engage s
IT 475	Modern Italian Literature and Cinema 3 Credits	Focus on silent films, fascism, WWII, Resistance, Neorealism, and reactions against Neorealism. IT 475 Modern Italian Literature and Cinema (3)(BA) This course meets the Bachelor of Arts degree requirements. This course v
IT 480	Italian Women Writers 3 Credits	Italian women have often been stereotyped as the "Mamma" or the "Nonna" who cooks, prays, and idolizes her sons. Such images do not accommodate the wide variety of experiences and contributions of Italian women th
IT 485	Italian American Cultural Studies 3 Credits	Italian American Cultural Studies explores the representations and self-representations of Italian Americans that have been produced since the 19th Century in a variety of aesthetic forms. Through analysis of literary and cine

IT 490	Dante in Translation 3 Credits	Students read and discuss Dante's poetic journey through the afterlife realms of Hell, Purgatory, and Paradise in The Divine Comedy. Also featured is his Vita Nuova, the account of Dante's love for Beatrice, which he wrote in
IT 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
IT 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
IT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
IT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 1	Level One Japanese A 4 Credits	Introduction to modern Japanese; development of audio-lingual facility and ability to read and write Japanese without aid of romanization.
JAPNS 2	Level One Japanese B 4 Credits	Continuation of elementary Japanese, with emphasis on improving audio-lingual facility and strengthening reading and writing skills in modern Japanese.
JAPNS 3	Level Two Japanese A 4 Credits	Continued study of modern Japanese at elementary level; extensive audio- lingual practice for conversational fluency; reading/writing original scripts.
JAPNS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 99	Foreign Study 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
JAPNS 110	Level Two Japanese B 4 Credits	Intermediate Japanese - Continued study of modern Japanese at intermediate level; extensive audio-lingual practice for conversational fluency; reading/writing original scripts. JAPNS 110 Conversation, Reading, and Compo
JAPNS 120	Japanese Literature in Its Cultural Context 3 Credits	Japanese literature and film from classical through contemporary times, with attention to changing cultural settings. Taught in English. This course is intended to provide an introduction to the literature of Japan from the seve
JAPNS 120W	Japanese Literature in its Cultural Context 3 Credits	Japanese literature and film from classical through contemporary times, with attention to changing cultural settings. Taught in English. JAPNS 120W Japanese Literature in its Cultural Context (3) (GH;IL)(BA) This course meet
JAPNS 121N	Japanese Film and New Media 3 Credits	Survey of Japanese film and new media in the twentieth century and beyond, with attention to changing cultural settings. Taught in English. JAPNS 121N Japanese Film and New Media (3) (GH;GA;IL) (BA) This course meets
JAPNS 121Q	Japanese Film and New Media 3 Credits	Survey of Japanese film and new media in the twentieth century and beyond, with attention to changing cultural settings. Taught in English. JAPNS 121Q Japanese Film and New Media (3) (GH;IL) (BA) This course meets the
JAPNS 122	Gods to Godzilla: A Survey of Japanese Culture 3 Credits	This course will examine the formation of Japanese culture through the lens of exchange and adaptation. Seeking to examine our understanding of "Japan" and "culture," the course will explore the interplay between culture
JAPNS 172	Introduction to Japanese Civilization 3 Credits	This course surveys the development of civilization in Japan from ancient times to the present. Among the key goals of this course is to discuss what is distinctive about "Japanese civilization." As a survey of Japan it include
JAPNS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 199	Foreign Study--Basic Japanese 1-8 Credits/Maximum of 8	Small group instruction in spoken and written modern Japanese at the introductory level.
JAPNS 210	Extensive Reading in Japanese 1.5 Credits/Maximum of 12	This course consists of reading Japanese books without translation or grammar instruction in and outside of class. Students will choose books from a selection provided by the instructor, beginning at a lower level and movin
JAPNS 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
JAPNS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
JAPNS 296A	Independent Studies 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
JAPNS 296B	Independent Studies 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
JAPNS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

JAPNS 299	Foreign Study--Intermediate Japanese 1-12 Credits/Maximum of 12	Small group instruction in spoken and written modern Japanese at the intermediate level.
JAPNS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 399	Foreign Study 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
JAPNS 401	Level Three Japanese A 4 Credits	Further acquisition of the four language skills in Japanese--reading, writing, speaking and listening comprehension. JAPNS 401 Advanced Conversation (4) (IL) (BA) This course meets the Bachelor of Arts degree requirement
JAPNS 402	Level Three Japanese B 4 Credits	Exclusively for study abroad returnees. To further develop Japanese proficiency in speaking, listening, reading, and writing. JAPNS 402 Advanced Reading (3) (IL) (BA) This course meets the Bachelor of Arts degree requirem
JAPNS 403Y	Level Four Japanese A 4 Credits	Continuation of JAPNS 402. Aims to improve students' proficiency in all four language skills, with a special emphasis on writing. JAPNS 403Y Level Four Japanese A (4) (IL) This is a four credit course designed for those wh
JAPNS 404	Level Four Japanese B 4 Credits	Continuation of JAPNS 403Y. Aims to improve students' proficiency in all four language skills through content-based language learning. JAPNS 404 Level Four Japanese B (3)(IL) This is a four credit course designed for thos
JAPNS 410	Japanese Through Manga 3 Credits	The course aims to expand students' knowledge and application of Japanese language beyond elementary and intermediate textbooks through the use of manga (graphic novels). JAPNS 410 Japanese Through Manga (3) (I
JAPNS 426	Early Modern Japan 3 Credits	Japanese history from 1580-1880. ASIA 474 (HIST 474, JAPNS 426) Early Modern Japan (3) Japan's Tokugawa period can be difficult to grasp. It resembles a modern society in many respects but operated according to a lo
JAPNS 430	Japan in the World 3 Credits	Study of Japan's foreign relations and position in the international community from the early 19th century to the present. ASIA (JAPNS) 430 Japan in the World (3) (IL)(BA) This course meets the Bachelor of Arts degree require
JAPNS 431	Courtly Japan 3 Credits	Focused study of aristocratic society and culture of Heian period Japan. JAPNS 431 (ASIA 431) Courtly Japan (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. The Heian period of Japanese history sa
JAPNS 432	War and the Warrior in Japan 3 Credits	Survey of the role of warfare and the warrior in Japan, with attention to changing cultural settngs. Taught in English. JAPNS 432 (ASIA 432) War and the Warrior in Japan (3) (IL) This course is intended to provide an introductio
JAPNS 434	Beyond Anime 3 Credits	The visual, tactile, and literary arts play key roles in how modern nation-states make sense of themselves and how they make sense of other nations. Japan provides one key example through which to observe the use and fu
JAPNS 452	Contemporary Japan: Cultures, Lifestyles, Trends 3 Credits/Maximum of 6	Survey of aspects of modern Japanese society; includes readings from Japanese newspapers, magazines, and fiction; topics may vary each semester. JAPNS 452 Contemporary Japan: Cultures, Lifestyles, Trends (3 per ser
JAPNS 453	Japanese Film 3 Credits/Maximum of 6	Selected films and directors representing various aspects of Japanese culture and cinema; topics may vary each semester. JAPNS 453 Japanese Film (3 per semester/maximum of 6) (IL) (BA) This course meets the Bachelor
JAPNS 454	Japanese Literature 3 Credits/Maximum of 6	Selected works from important Japanese texts representing genres such as autobiography, poetry, fiction, and drama; topics may vary each semester. JAPNS 454 Japanese Literature (3 per semester/maximum of 6) (IL) (BA)
JAPNS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
JAPNS 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
JAPNS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
JAPNS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
JAPNS 499	Foreign Study--Advanced Japanese 1-15 Credits/Maximum of 15	Small group instruction in spoken and written modern Japanese at the advanced level.
JST 4	Jewish and Christian Foundations 3 Credits	This course seeks to help students better understand the Bible and appreciate its role as an authoritative collection of sacred texts for Jews and Christians. The Bible is a difficult book, one that is demanding on many levels.
JST 10	Jewish Civilization 3 Credits	This course explores the life of the Jewish people from Biblical times on, emphasizing cultural, religious, and institutional developments. HEBR 10 / HST 10 Jewish Civilization (3) (GH;IL)(BA) This course meets the Bachelor of
JST 12N	Lands of the Bible 3 Credits	Utilizing the textual and archaeological evidence, this course introduces students to the lands, cultures, and peoples associated with the Hebrew Bible, New Testament, and Qur'an. Geographically, the lands of the Bible enco
JST 60N	Society and Cultures in Modern Israel 3 Credits	Israel is often portrayed in media and popular society in incomplete or distorted terms. In some cases, it is presented as a troubled, violent, dangerous place, as a place permeated by long-standing hatred between Jews and
JST 70	Prophecy in the Bible and the Ancient Near East 3 Credits	This course will introduce students to the prophetic traditions of the Bible and the Ancient Near East. The course will explore the development of prophetic circles in the ancient Near East (including Egypt, Syria-Palestine, an

JST 83	First-Year Seminar in Jewish Studies 3 Credits	Critical approaches to the history, sociology, and literature of Jewish Studies. JST 83 First-Year Seminar in Jewish Studies (3) (GH;FYS;IL)(BA) This course meets the Bachelor of Arts degree requirements. Through a combinat
JST 90	Jerusalem: Past, Present, and Future 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
JST 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
JST 102	Ancient Israel 3 Credits	Ancient Israel names the land and people of the Hebrew Bible (Old Testament), and it provides important background for the Jewish, Christian, and Muslim traditions. Yet, ancient Israel remains difficult to approach historically
JST 104	The Bible as Literature 3 Credits	This course examines the literature of the Bible. Throughout this course, students will study the language, thought, images, and structures of the book that has arguably proved the central text of Western literature. Students v
JST 106	Mysticism and Kabbalah 3 Credits	A survey of the history, philosphy, and cultural impact of various mystical traditions in relation to world religions.
JST 110	Hebrew Bible: Old Testament 3 Credits	This course offers an academic introduction to the Hebrew Bible (Old Testament). The course will move through the Hebrew Bible in a roughly historical sequence oriented toward the order of the prose books of the Hebrew B
JST 111	Early Judaism 3 Credits	Early Judaism will introduce students to the history of Judaism as reflected in Jewish literature from the period of the Babylonian exile (587/6 BCE) to the closure of the Babylonian Talmud (ca. 600 CE). This course will analyze
JST 112	Jesus the Jew 3 Credits	Although Jesus of Nazareth is the object of Christian devotion, he was not a Christian himself, but a pious Jew. What can be known about the historical figure of Jesus the Palestinian Jew? How would his teachings and actio
JST 113	Jewish Myths and Legends 3 Credits	Comparative study of diverse interpretations of stories from the Bible in Judaism and Christianity. CMLIT 113 / JST 113 / CAMS 113 / RLST 113 Myths and Legends of the Jews (3) (GH;IL) The impact of the Bible on Western

JST 114	Modern Judaism 3 Credits	This course will explore the developments in Judaism since the Enlightenment and the French Revolution. Major changes have come to the world since 1700-changes represented by terms such as the Enlightenment, Emanc
JST 115	The American Jewish Experience 3 Credits	Chronological and topical survey of the story of Jewish life in America. We will trace the social, religious, cultural, and political developments in the Jewish community from the Colonial Period to the present. Topics to be cove
JST 118	Modern Jewish History 3 Credits	Modern Jewish history is a complex and fascinating story. Some scholars depicted it as a long period of suffering and isolation that culminated in the Holocaust and only ended with the founding of the state of Israel. In recer
JST 120	New Testament 3 Credits	CAMS 120 / JST 120 / RLST 120 New Testament (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. This course provides an introduction to the collection of early Christian writings that make up the Ne
JST 121	History of the Holocaust 1933-1945 3 Credits	This course focuses on the history and historiography of the Holocaust from 1933-1945. In addition to cultivating intellectual skills, such as critical analysis and concise presentation, the primary purpose of this course is to pr
JST 122	Apocalypse and Beyond 3 Credits	Apocalypse and Beyond is a topic (and title) meant to suggest that apocalyptic imagination about the end of the world, first begun in the Ancient Near East with certain Jewish and Christian writings, is constantly re-envisione
JST 123	History of God: Origins of Monotheism 3 Credits	This course examines the early history of God; that is, the concept of the divine as a single supreme being. In particular, it focuses on the origins of monotheism and the development of its three major traditions in the Near Ea
JST 124	Early and Medieval Christianity 3 Credits	This course provides an introduction to the history of Christianity. It traces, specifically, the development of the Christian movement from its beginnings as a small Jewish sect in Jerusalem to its unlikely emergence as the relig
JST 128N	The Holocaust in Film and Literature 3 Credits	This class studies how art, literature, film, and other media can help us to gain a perspective on one of the most horrific events in human history, the Holocaust: the genocidal murder of more than six million men, women, and

JST 131	Jewish Literature: An International Perspective 3 Credits	Literature of the Jewish tradition in various cultures and contexts, such as Europe, Israel, Islamic countries, and the Americas. J ST 131 (CMLIT 110) Jewish Literature: An International Perspective (3) (GH;US;IL) (BA) This cou
JST 132	Jewish American Literature 3 Credits	This course will provide an introduction to Jewish American literature through a historical survey of the tradition's key texts, figures, and themes. The course will focus on the defining aspects of the literature and on what the l
JST 135	Ethics in Jewish Tradition and Thought 3 Credits	This course takes as its starting point the idea that modern ethical frameworks are deeply rooted in the soil of older traditions. By examining the development of Jewish intellectual traditions and their roots in the Bible, it prov
JST 140	The History of the Israel-Palestine Conflict (1917-Present) 3 Credits/Maximum of 3	This course covers the origins of the Israeli-Palestinian conflict and how the issues at stake changed over time, up to the present day. The course situates the conflict in the history of the Middle East and the larger context of
JST 143N	History of Fascism and Nazism 3 Credits	This course studies the developments of right-wing totalitarianism in the twentieth century with special emphasis on Fascist Italy and Nazi Germany, which provided the roots for fascist developments in the modern world. Th
JST 151	Introductory Biblical Hebrew 3 Credits	Fundamentals of Biblical Hebrew grammar, syntax, and vocabulary. J ST (CAMS/HEBR) 151 Introductory Biblical Hebrew (3) The aim of CAMS/J ST/HEBR 151 is to introduce students to the fundamentals of Biblical Hebrew
JST 152	Intermediate Biblical Hebrew 3 Credits	Intermediate study of Biblical Hebrew grammar, syntax, and vocabulary. CAMS (JST/HEBR) 152 Intermediate Biblical Hebrew (3)(BA) This course meets the Bachelor of Arts degree requirements. CAMS/JST/HEBR 152 contir
JST 153	Dead Sea Scrolls 3 Credits	The discovery of the Dead Sea Scrolls was one the most important archeological discoveries of the 20th century. This collection of over 900 scrolls found in caves by the Dead Sea includes the oldest manuscripts of the Hebr
JST 160	Sacrifice in the Ancient World 3 Credits	Sacrifice (from Latin sacer "holy + facere "to make") is one of the most prevalent yet troubling aspects of religion. Its destruction and violence is often at odds with other rituals and core understandings within a religion, so wh
JST 181	Introduction to the Middle East 3 Credits	The course offers a survey of the history of the Middle East from the rise of Islam to the present day. The course introduces students to structures of power, society, and economy in three distinctive periods: 1) the rise of Islar
JST 186	The Silk Roads 3 Credits	Taking cross-cultural communication and connectivity as its central themes, this course explores the central role that the silk roads and Indian Ocean maritime routes have played throughout Eurasian history. The course prov

JST 190	The Middle East Today 3 Credits	This course introduces students to the peoples and places of the contemporary Middle East. The course engages students in discussion of themes that are pertinent to the region and to contemporary issues, including demo
JST 193	Modern Iran 3 Credits	This course covers the history of modern Iran from the late nineteenth century to the present day. The course examines significant events and historical trends with attention to local, regional, and global contexts, and examin
JST 194	Jerusalem: Sacred and Profane 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
JST 195	Genocide in Global perspectives: Twentieth Century and beyond 3 Credits	The history and memory of the Holocaust, the Armenian, Cambodian and other forms of genocide are often taught separately in different disciplines. This course will examine them together through the various ways different
JST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
JST 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
JST 235	The Church and the Jews 3 Credits	Examination of the relationship between Western church and the Jews from the First Century to Enlightenment. HIST 235HIST 235 The Church and the Jews (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requ
JST 260	The Middle East in Film 3 Credits	Through the medium of film, HIST/JST 260 examines the contemporary and historical transformation of the Middle East from the Ottoman period, through the British and French mandates, and the eventual establishment of t
JST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
JST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
JST 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
JST 305Y	Middle East Studies Research Workshop 3 Credits/Maximum of 6	The course is a research seminar for undergraduates majoring in Middle East Studies and for students interested in pursuing a sustained research project on a topic related to the Middle East. Course topics on the Middle Ea
JST 320N	Language, Ideology, and Propaganda 3 Credits	The course gives students hands-on tools for investigating ideology and propaganda through the analysis of a variety of historical and contemporary texts. With the help of different theoretical perspectives, students learn ho
JST 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
JST 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
JST 401	Ancient Technologies and Socio-cultural History in the Ancient Levant 3 Credits	Social and intellectual development in the Ancient Levant as they affected and were affected by technological development.
JST 409Y	Antisemitisms 3 Credits	Surveys the history of anti-Semitism from antiquity through the Middle Ages to the present. HIST (J ST) 409Y (RL ST 407Y) European Anti-Semitism from Antiquity to the Present (3) (IL)(BA) This course meets the Bachelor of
JST 411	Jewish Studies 3 Credits/Maximum of 9	Study of the life and thought of a particular period or movement in the history of Judaism.
JST 416	Zionism 3 Credits	History of Zionist thought and politics to the foundation of Israel 1948.
JST 420	Archaeology of the Near East 3 Credits	Culture of the Near East and India from Paleolithic times through the Bronze Age.
JST 421	Aramaic 3 Credits	Fundamentals of Aramaic grammar, syntax, and vocabulary. The aim of this course is to introduce students to the fundamentals of ancient Aramaic. This course focuses primarily on the morphology and syntax of Aramaic, a
JST 425W	Books of the Bible: Readings and Interpretation 3 Credits/Maximum of 12	Study of a biblical book/topic in terms of literary, historical, and cultural contexts, history of interpretation, and critical scholarship. CAMS (J ST/RL ST) 425W Books of the Bible: Readings and Interpretation (3 per semester/n
JST 426	Holocaust 3 Credits	This course is an in-depth study of the history of the Holocaust in Europe that puts special emphasis on primary sources. HIST 426 / JST 426 Holocaust (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements

JST 427	Topics in Jewish American Literature 3 Credits/Maximum of 9	An in-depth examination of important themes, writers, and/or historical developments in Jewish Literature of the United States. ENGL (J ST) 427 Topics in Jewish American Literature (3) This course will provide sustained exa
JST 432W	Gender and Sexuality in the Bible 3 Credits	This writing intensive course will examine issues of gender and sexuality in the Bible, including the Hebrew Bible/Old Testament, the Deuterocanon, and the New Testament. It will introduce students to a variety of academic a
JST 434	Movies, Media, and the Jewish American Experience 3 Credits	Study of Jewish American Film and Popular Culture. COMM (J ST) 434 Movies, Media, and the Jewish American Experience (3) The course examines film and other popular media, including theater, radio, and television, as i
JST 439	Women and the Holocaust 3 Credits	Analysis of women's experience in the Holocaust and exploration of the role of gender in Holocaust Studies. J ST (HIST/WMNST) 439 Women and the Holocaust (3) Most of the early study of the Holocaust focused almost e
JST 443	Jewish Histories of the Middle East 3 Credits/Maximum of 6	Jews have been part of Middle Eastern societies for thousands of years. They flourished at times and endured hardships at others, but they have been part of every significant social and cultural transformation of the Middle
JST 450H	Genocide and Tyranny 3 Credits	This course focuses on the conceptualization and socio-political determinants of genocide and tyrannical regimes, with an emphasis on the Holocaust.
JST 457	Jewish Communities: Identity, Survival, and Transformation in Unexpected Places 3 Credits	Examines the global array of smaller Jewish communities that have flourished outside the main urban centers of Jewish settlement. JST 457 / ANTH 457 / SOC 457 Jewish Communities: Identity, Survival, and Transformation
JST 459	Writing Palestine-Israel 3 Credits	Study of literary writing of and about the Israel-Palestine conflict. This course examines the Israel-Palestine conflict through an analysis of literature written by participants, victims, bystanders, and observers. We will read liter
JST 468	Jewish Philosophy 3 Credits	Explores major figures and trends in Jewish philosophy and their influences on other philosophical traditions. J ST (PHIL) 468 Modern Jewish Philosophy (3) The primary objective of this course is to encourage students to ha
JST 473	The Contemporary Middle East 3 Credits	Political, economic, and social changes in Turkey, Iran, Israel, and the Arab countries in the twentieth century; Arab-Israeli conflict.
JST 474	Hiroshima & the Holocaust in History and Memory 3 Credits	The history and memory of the Holocaust and Hiroshima and Nagasaki are often taught separately in different disciplines. This course will examine them together through the various ways different societies remembered, und
JST 478	Ethics After the Holocaust 3 Credits	The aim of this course is to explore various ways in which philosophers have responded to Auschwitz (a signifier, or name, which is in turn not without controversy and complexity). It will examine, in particular, the promise an
JST 480	Greeks and Persians 3 Credits	Development and achievements of the Achaemenid kingdom; relationships between Persians and Greeks.
JST 494	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
JST 494H	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
JST 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
JST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
JST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
JST 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KINES 1	Introduction to Outdoor Pursuits 1.5-3 Credits/Maximum of 12	Introduction to Outdoor Pursuits (KINES 1/ RPTM 1) is a course that is designed to introduce the student to selected outdoor pursuit activities. The selected activities will depend on the time of the year and availability of reso
KINES 4	Principles of Fly Tying and Fly Fishing for Trout 1.5 Credits	KINES 4 is a unique course designed to give students of all experience levels an introduction to the lifetime sport of fly fishing. The purpose of the course is to present the students with the many aspects of fly tying and fishin
KINES 6	Cycle Conditioning 1.5-3 Credits	KINES 6 introduces students to the performance of cycling as a lifelong activity that helps maintain and enhance physical fitness and overall wellness. This course provides the information that the student needs to understan
KINES 10	Techniques in Rock Climbing 1.5 Credits	KINES 10 is a course designed to give students a comprehensive introduction to the skills, safety, terminology and equipment used in the sport and recreational activity of rock climbing. This course also provides the knowled
KINES 10A	Lead Rock Climbing 1.5 Credits	Kinesiology 10A is designed to give students a comprehensive introduction to the skills, safety, terminology and equipment used in the activity of lead rock climbing. Lead climbing involves the climber placing protection to p
KINES 11	Snowsports: Downhill Skiing 1.5 Credits	KINES 11 is designed to help students build overall fitness and wellness based in winter snowsports, specifically downhill skiing. Students acquire the knowledge and critical thinking skills that are essential to the developme
KINES 12	Snowsports: Snowboarding 1.5 Credits	KINES 12 is designed to help students build overall fitness and wellness based in winter snowsports, specifically snowboarding. Students acquire the knowledge and critical thinking skills that are essential to the developme
KINES 13	First Aid & Safety, CPR/AED 1.5 Credits	KINES 13 provides students with the knowledge and skills necessary to assess and recognize an emergency situation, call for help, and administer basic first aid & cardiopulmonary resuscitation (CPR) with an automated ext
KINES 17	Ballroom Dance 1.5 Credits	KINES 17 introduces students to ballroom dance as a social/recreational or competitive activity, with the goal of leading to an active lifestyle. This course provides the basic skills and information necessary to develop and co
KINES 20	Modern Dance 1.5 Credits	KINES 20 is a beginner's level course designed to provide students with an introduction to the motor skills and cognitive understanding needed for expression through modern dance. This class explores the use of weight, tir
KINES 24	Lifetime Sports 3 Credits	KINES 24 is divided into three equal units that are designed to give students the opportunity to explore three different sports that have the potential for lilfetime participation. This format will give students an opportunity to ga
KINES 25	Introduction to Court Sports 1.5 Credits	KINES 25 is a course that has been designed to give the Penn State student an introduction to selected lifetime racquet sports such as but not limited to tennis, racquetball, squash, table tennis, badminton, handball, pickleb
KINES 27	Badminton 1.5 Credits	KINES 27 is a course designed to give the student the understanding, knowledge and skills to begin an exploration of the game of badminton. While the primary focus of this course is shot development and acquiring an und
KINES 29	Golf I 1-1.5 Credits	KINES 29 is a beginner¿s level course designed to give students the understanding, knowledge and skills to begin an exploration of the game of golf. While the primary focus of this course is the short game, 100 yards and in
KINES 29B	Total Golf 1.5-3 Credits	KINES 29B is a course that provides the information needed to understand, prepare for, and execute the game of golf and includes mandatory participation in travel during Spring Break. Students in this course work to appre
KINES 29C	Total Golf in Pennsylvania 3 Credits	KINES 29C is a course that provides the information needed to understand, prepare for, and execute the game of golf and includes mandatory participation in rounds of golf in and around Pennsylvania per the individual cour
KINES 42	Ice Skating 1.5 Credits	KINES 42 is a course focused on the development of basic ice skating skills, and introducing a new physical fitness activity option into the lifestyle of the Penn State student. In the course, students develop balance and cont

KINES 44	Racquetball I 1.5 Credits	This course is a beginner's level course that seeks to give students the understanding, knowledge and skills to begin an exploration of the game of racquetball. While the primary focus of this course is acquiring an understan
KINES 45	NAUI Basic SCUBA 1.5 Credits	KINES 45 introduces students to the fundamental academic concepts and practical skills of SCUBA diving as described by NAUI (National Association of Underwater Instructors) standards. Students explore the importance o
KINES 46	Squash I 1-1.5 Credits/Maximum of 1.5	KINES 46 is a beginner's level course designed to provide students with the motor skills and cognitive understanding necessary to successfully compete in the game of squash. While the initial focus of this course is develop
KINES 47A	Beginning Swimming 1.5 Credits	KINES 47A introduces students who are beginning swimmers to the performance of swimming safety and skills that can be used as lifelong activities. Students will learn and practice a progression of swimming related skills o
KINES 47B	Intermediate Swimming 1.5 Credits	KINES 47B introduces students who have attained moderate swimming skills and knowledge to advanced swimming strokes. Aquatic activities are introduced as they relate to one's lifetime for maintenance of physical healt
KINES 48	Tennis I 1.5 Credits	This is a beginner's level course that seeks to give students the understanding, knowledge and skills to begin an exploration of the game of tennis. While the primary focus of this course is stroke development and acquiring a
KINES 50	Lifeguarding 3 Credits	KINES 50 is a course designed to provide the student with comprehensive knowledge of fitness and safety in the aquatic environment. This course includes the development and understanding of aquatic skills, survival techn
KINES 53N	History and Practice of Martial Arts 3 Credits	History and Practice of Martial Arts, is an integrative, interdomain (GH, GHW) course. It examines the history of martial arts in which students will learn both about the origins, development, and diffusion of martial arts dating t
KINES 54N	Martial Arts & The Movies 3 Credits	This course is interdisciplinary, integrating knowledge domains in humanities and health-and-wellness by exploring the global history of martial arts films and its physical and formal practice. Students will learn about the cult
KINES 56	Introduction to Martial Arts 1.5 Credits	KINES 56 is designed to give students an introduction to martial arts and the use of martial arts for lifelong fitness. Martial arts have been practiced for centuries as a method of integrating mind, body, and spiritual well-being
KINES 57	Personal Defense 1.5 Credits	KINES 57 is designed to give students an understanding of and proficiency in self-defense strategies based on martial arts techniques. Students are introduced to the culture and history of the martial arts which encompasse
KINES 61	Fitness Theory and Practice 3 Credits	Fitness theory and Practice is a course designed to give the Penn State student a complete understand of the fundamental principles of physical fitness and the skills necessary to implement a personalized fitness program. T
KINES 61S	Fitness Theory and Practice 3 Credits	Fitness Theory and Practice is a course designed to give the Penn State student a complete understand of the fundamental principles of physical fitness and the skills necessary to implement a personalized fitness program.
KINES 62	Introduction to Cardiovascular Activities 1.5 Credits	KINES 62 has been designed to help students become acquainted with and proficient in many types of cardiovascular activities that can be used as part of a lifelong exercise program. Students should expect to participate i
KINES 63	Aerobic Dance 1.5 Credits	KINES 63, students engage in participation in various types of group fitness classes including but not limited to aerobic dance, Zumba, interval training, cardio circuit training. This active participation is joined with delivery of
KINES 65	Lifetime Jogging 1.5 Credits	KINES 65 is a beginner's level course that seeks to give students the understanding, knowledge and skills to establish a fitness program involving jogging. This course introduces students to the performance of jogging as a l
KINES 67	Physical Conditioning 1.5 Credits	KINES 67 has been designed to help students build high levels of overall physical conditioning based upon a variety of training techniques such as, but not limited to, high intensity interval training, functional training, and boo
KINES 68	Resistance Training 1.5 Credits	Resistance Training is a course designed to improve students' muscular strength/endurance and is focused on development and implementation of an effective personal strength/endurance training program for lifelong fitnes
KINES 70	Swim Conditioning 1.5 Credits	KINES 70 addresses, in both a theoretical and practical manner, the fitness benefits derived from swimming. These benefits include but are not limited to: flexibility, cardiovascular endurance, muscular strength and enduranc
KINES 72	Walking for Fitness 1.5 Credits	KINES 72 introduces students to the performance of fitness walking as a lifelong activity that is intended to maintain and enhance physical health, wellness, and psychological well-being. This course provides information the
KINES 76	Introduction to Tai Chi Ch'uan 1.5 Credits	KINES 76 is designed to introduce students to Tai Chi Ch'uan, a traditional Chinese system of personal cultivation and self-defense. Students explore Tai Chi Ch'uan as a health and martial arts system which is based on mor
KINES 77	Yoga for a Lifetime 1.5 Credits	KINES 77 is a course designed to give students an understanding of and proficiency in yoga. Yoga for the Lifetime introduces students to the performance of yoga as a lifelong activity that maintains and enhances physical he
KINES 77A	Advanced Yoga Practice 1.5 Credits	Students who enter Advance Yoga Practice (KINES 77A) have experience with yoga but are introduced to a deeper and more detailed knowledge and practice of this ancient philosophy now practiced in all contemporary soc
KINES 81	Wellness Theory 3 Credits	KINES 81 is a course designed to explore the cognitive foundations of wellness. Wellness is dynamic and multidimensional. Each individual possesses a unique potential for wellness that is impacted by biological, environme
KINES 82	Action Methods for Stress Management 3 Credits	In Action Methods for Stress Management, students explore how the mind and body are affected by stress over the lifespan. Through the course students examine the effects of stress on various body systems (i.e. cardiovas
KINES 83	Exercise for Stress Management 1.5 Credits	KINES 83 is a course designed to give the student an introductory understanding of the fundamental principles of stress management. This course will provide pertinent information the student needs to understand, organize

KINES 84	Fitness for Life 1.5-3 Credits	Kinesiology 84 is a course that has been designed to give the Penn State student a complete understanding of the fundamental principles of physical fitness. This course will provide the necessary skills and information the s
KINES 85N	The Art and Science of Balancing Wellness 3 Credits	This course will examine the overlapping methodologies in the fields of kinesiology and written, artistic and oral promotion of health and wellness. In the collaboration of numerous fields of study, students will examine and de
KINES 88	Varsity Sport Experience 1.5-3 Credits	kines 88 introduces students to the rigors of the varsity sport experience. This course provides the information that the student needs to understand, organize, plan and thrive in the competitive environment of a collegiate sp
KINES 89	Wilderness Experience 3 Credits/Maximum of 3	KINES 89 is a wilderness orientation program that is offered for incoming students to assist in their transition to life at Penn State. This course includes multiple days of backpacking in various locations. Through these activiti
KINES 90	Indoor Team Sports 3 Credits	This course is divided into two to three units that are designed to provide students with an introduction to a variety of lifetime indoor team sports. The course may include, but is not limited to, basketball, volleyball, team hand
KINES 90A	Introduction to Team Sports/Indoor - Volleyball 1.5 Credits/Maximum of 99	KINES 90A focuses specifically and solely on volleyball. It is designed to give students an understanding of the knowledge and skills necessary for successful participation in the game of volleyball. This format will give studer
KINES 90B	Introduction to Team Sports/Indoor - Basketball 1.5 Credits/Maximum of 99	KINES 90B focuses specifically and solely on basketball. It is designed to give students an understanding of the knowledge and skills necessary for successful participation in the game of basketball. This format will give stud
KINES 91A	Introduction to Outdoor Team Sports-Soccer 1.5 Credits	KINES 91A focuses specifically and solely on outdoor soccer. It is designed to give students an understanding of the knowledge and skills necessary for successful participation in the game of soccer. This format gives stude
KINES 91D	Introduction to Outdoor Team Sports - Ultimate 1.5 Credits	KINES 91D focuses specifically and solely on the lifetime sport of ultimate. It is designed to give students an understanding of the knowledge and skills necessary for successful participation in the game of ultimate. This form
KINES 92	Personal Fitness and Wellness 0.5-3 Credits/Maximum of 3	KINES 92 has been designed to help students build overall fitness and wellness based upon their individual condition and accommodating individual needs. Students acquire the knowledge and critical thinking skills that are
KINES 93	Enhancing Mastery in Physical Activity 1.5-3 Credits/Maximum of 6	The KINES 93 curriculum provides a unique approach to movement education. Rather than focusing on regimented skill development over a period of a semester, KINES 93 requires students to incorporate activity into their d
KINES 96	Independent Study in Physical Activity 0.5-3 Credits/Maximum of 99	This course is designed to meet the needs of students to expand Kinesiology experiences beyond the designed course curriculum. KINES 096 Independent Study in Physical Activity (1-3 per semester) (GHA) Students enroll
KINES 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 100	The Cultural and Behavioral Foundations of Kinesiology 3 Credits	Philosophical, ethical, historical, cultural, psychological, and behavioral foundations of human movement, health, wellness and exercise. KINES 100 The Cultural and Behavioral Foundations of Kinesiology (3) This course intr
KINES 101	The Biophysical Foundations of Kinesiology 3 Credits	Biomechanical, physiological, and neurobiological foundations of human movement and exercise, including applications to clinical conditions, rehabilitation, and fitness are presented. KINES 101 The Biophysical Foundation
KINES 123S	Thinking Critically about Key Questions in Kinesiology 1 Credits	This course gives an introduction to some the major academic topics in the Department of Kinesiology with the aim to meet the Penn State first year seminar goal of orienting students to the scholarly community from the out
KINES 126	The Health Program for the Elementary School Child 1.5 Credits	Introduction to the Coordinated School Health Program. Overview of contemporary school-based health education theory, content, methods, and practice. KINES 126 The Health Program for the Elementary School Child (1.
KINES 127	The Physical Education Program for the Elementary School Child 1.5 Credits	Theoretical and practical overview of developmentally appropriate physical education for children. KINES 127 The Physical Education Program for the Elementary School Child (1.5) KINES 127 is an introductory course desig
KINES 135	Introduction to Athletic Training 3 Credits	Introduction to Athletic Training provides an overview of the field of athletic training exploring the breadth of athletic training terminology, issues, and injuries. After completing the course, the students will be able to describe t
KINES 136	Introduction to Careers in the Health Professions 3 Credits	Approximately 11% of all jobs in the economy are in the healthcare sector. This course will provide an overview of the US healthcare system and the various careers that can be pursued within it. Several career paths (such as
KINES 160N	Fitness with Exercise Physiology 3 Credits	Biology of Exercise is an integrative exercise physiology course that combines performing physical activity (Kinesiology) and applying biological principles (Biology). This course will explain the benefits, changes, and process
KINES 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KINES 200	Muscle Training: Physiology, Programs, Techniques 3 Credits	KINES 200 addresses the physiological basis of strength training emphasizing mechanisms of muscle contraction and growth, program and facility design, and individual exercise technique. This course focuses on the conce
KINES 201	Cardiorespiratory Training for Health and Performance 3 Credits	Exploration of the principles and practical applications of cardiorespiratory training for health and performance enhancement. KINES 201 Cardiorespiratory Training for Health and Performance (3) KINES 201 prepares studen
KINES 202	Functional Human Anatomy 3 Credits	This course is designed to provide students a didactic and laboratory experience in functional human anatomy. Upon course completion, students should be able to comprehend and apply standard anatomical nomenclature
KINES 202H	Functional Human Anatomy 4 Credits	In-depth examination of the, musculoskeletal, nervous, cardiovascular, and respiratory systems, and their relationship to human movement.
KINES 203	Medical Terminology for Allied Health Professionals 3 Credits	Comprehensive review of terms related to functions, disorders, diagnosis, and treatment of body systems related to physical activity and movement. KINES 203 Medical Terminology for Allied Health Professionals (3)This cou
KINES 222N	Science and Politics of the Female Athlete 3 Credits	The purpose of this course is to explore gender differences in sport and politics that emerge from physiology, culture, history, politics, and policy. The engagement of women in sport has unique physiological considerations a
KINES 260	Research Skills in Kinesiology 3 Credits	KINES 260 prepares students to read, understand and critique scientific research. The epistemological belief that knowledge is static and science discovers truth will be challenged. Rather than research being a product achi
KINES 267	Fundamental Movement Skills Instruction 1 Credits	Instruction for performing and delivering developmentally appropriate psychomotor skills, movement patterns, and content to preschool and elementary school-aged children. The course is designed for students interested in
KINES 295	Introduction into Careers 1 Credits/Maximum of 1	This course exposes students to self-examination, career pathways, certification prerequisites and internship opportunities within the related field of studies. This course is designed to expose students to specific career path
KINES 295B	Kines Careers & Observation 1 Credits/Maximum of 1	KINES 295B (1 credit) is a required course for students in the Movement Science Option and the Applied Exercise and Health Option of the Kinesiology curriculum. It is the first of three practicum courses that exposes studer
KINES 295C	Professional Development - Field Experience 1-2 Credits/Maximum of 8	KINES 295C Professional Development - Field Experience (1-2 per semester/maximum of 8) This course is designed to provide undergraduate students the opportunities of professional development via lecture format, profes
KINES 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

KINES 296F	**SPECIAL TOPICS** 1-6 Credits/Maximum of 18	No description
KINES 296G	**SPECIAL TOPICS** 1-6 Credits/Maximum of 18	No description
KINES 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KINES 303	Emergency Recognition and Care with BLS CPR 3 Credits	KINES 303 is designed to provide students with the opportunity to acquire and develop the skills and competencies needed for First Responder Certification from the American Red Cross, American Heart Association, or Em
KINES 321	Psychology of Movement Behavior 3 Credits	Psychology of Movement Behavior is designed to introduce students to the basic concepts and applications of psychological knowledge for organized sport, physical activity, athletic training, and related environments where
KINES 341	The Historical, Cultural, and Social Dynamics of Sport 3 Credits/Maximum of 3	Connections between sport and broader historical, cultural, social, political, intellectual, and economic contexts.
KINES 345	Meaning, Ethics, and Movement 3 Credits	The course focuses on the development of philosophic reasoning skills to better understand the values and ethics of physical activity in a variety of professional settings. Emphasis is placed on the practicality of good philosc
KINES 350	Exercise Physiology 3 Credits	Structure and function of the human body as applied to health, wellness, exercise, and sports. KINES 350 Exercise Physiology (3) Exercise Physiology is a mid- to upper division course that will appeal to students with an int
KINES 356	Activity and Disease 3 Credits	KIES 356 is an examination of hypokinetic disease on human wellness involving identification, assessment, research, and exercise design of human activity for disease prevention. Content in this course defines what physical
KINES 358	Ergogenic Aids 1 Credits	Skills development including research identification and evaluation of work-enhancing methods and devices as related to human performance and wellness. In this course students will learn about the research identification a
KINES 360	The Neurobiology of Motor Control and Development 3 Credits	This 3 credit lecture course provides a rigorous presentation of the neuroscientific foundations of human movement control and coordination. This course introduces students to the cellular basis of neurophysiology, while em
KINES 360H	Movement Skills 3 Credits	Examination of the basic mechanisms and variables that govern the coordina- tion and control of movement and the acquisition of skill.
KINES 366	The Process of Teaching Physical Education 3 Credits	Analysis of pedagogical skills and methods applied to K-12 physical education. KINES 366 The Process of Teaching Physical Education (3) The purpose of this course is to introduce teacher candidates to the pedagogical pr
KINES 367	Games and Sports Instruction Across the Lifespan 1 Credits	How to understand, perform and deliver individual and team games and sports across the lifespan. This course is designed to provide students with the opportunity to research, experience, and reflect upon the content know
KINES 368	Individual Fitness and Wellness 2 Credits	How to perform and deliver fitness and wellness concepts and exercises to individuals across the lifespan. The purpose of this course is to teach students how to effectively communicate, motivate, and engage individuals in
KINES 384	Biomechanics 3 Credits	Basic mechanical knowledge required to understand human movement. KINES 384 Biomechanics examines biological phenomena from a mechanical perspective; this course examines predominantly human movement from
KINES 395	Leadership Practicum for Applied Exercise and Health Careers 1 Credits/Maximum of 1	Introduction to hands-on leadership experience within the fields of health, fitness, wellness, and physical activity. This course is designed to provide students with a supervised practicum experience in applied careers in the f
KINES 395A	Ldrshp Prac:Tchrs 1 Credits	This is a one credit practicum designed to provide teacher candidates with the opportunity to observe, assist, and teach physical education classes in school settings. Most KINES 395A teacher candidates are in the final ser
KINES 395B	Leadership Practicum: KINES 1 Credits	Supervised experience in leading/assisting in tasks associated with fitness testing/prescription in a variety of settings.
KINES 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 398	Special Topics Course 1-9 Credits/Maximum of 9	Forman courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KINES 400	Adapted Physical Education 3 Credits	Basic concepts of planning and conducting physical education programs for children with physical, sensory, and/or intellectual impairments. KINES 400 Adapted Physical Education (3) This is an undergraduate level course t
KINES 401	Applied Group Fitness Exercise Prescription and Program Design 3 Credits/Maximum of 3	Skills and practical knowledge to design safe and effective exercise classes for a variety of populations to improve health. The primary purpose of this course is to provide students interested in applied exercise and health ca
KINES 402	Human Anatomy Cadaver Dissection 3 Credits	This course is designed to provide students with an established anatomy background (i.e. completed KINES 202 or an equivalent course (BIO 129, 161/162, 163/164, 472) the basic concepts and applications of human cada
KINES 403	Emergency Medical Technology 4 Credits	Theoretical and practical aspects of emergency medical techniques as applied in the pre-hospital environment.
KINES 405N	Bicycling Culture and Urban Design 3 Credits	KINES 405N, a study abroad course, based in a bicycle friendly European city, provides students with an opportunity to experience the programs, policies, infrastructure (including urban design features) and culture associate
KINES 408	Kinesiology Learning Strategies 1-3 Credits/Maximum of 6	This course provides peer learning assistants with the fundamentals they will need to be effective in the laboratory and/or recitation classroom. Students will learn the fundamental skills needed to; assist in designing lesson p
KINES 410	Physical Growth and Motor Development 3 Credits	Study of biologically programmed growth processes and environmental influences leading to attained adult form and biomechanical function.
KINES 411	Introduction to Musculoskeletal Injury and Rehabilitation 3 Credits	This course is designed to provide an overview of common musculoskeletal injuries and rehabilitation for pre-allied health and fitness professionals. KINES 411 Introduction to Musculoskeletal Injury and Rehabilitation (3) Thi
KINES 413W	Movement Science and Pseudoscience 3 Credits	The domains of health and fitness seem to be filled with questionable claims for products that are supposed to make us stronger, faster, fitter, and healthier. How should we make decisions about whether to accept these clai
KINES 414	Interdisciplinary Study of Street Medicine 3 Credits	This course exposes students to the fundamentals of homelessness while incorporating fieldwork in cities across the United States. Students will explore and disseminate roles such as: environmental living, proper hydration,
KINES 419	Disability Sport and Recreation 3 Credits	The purpose of this course is to provide students with an understanding of disability sports and recreation. Throughout the course students will explore the process for developing and implementing a disability sports progran
KINES 420	Psychosocial Dimensions of Physical Activity 3 Credits	Discussion of theoretical and empirical findings, structuring a frame of reference for exploring man's involvement in physical activity.
KINES 421	Exercise Psychology 3 Credits	Psychological antecedents and consequences of physical activity behaviors. KINES 421 Exercise Psychology (3)Exercise Psychology is designed to introduce students to the psychological antecedents and consequences o
KINES 422	Physical Activity Interventions 3 Credits	Principles of designing, planning, and implementing theory- and evidence- based physical activity interventions. KINES 422 Physical Activity Interventions (3)This course is designed to acquaint undergraduate students with t
KINES 423	Psychology of Sports Injuries 3 Credits	Psychological causes and consequences of sports related injuries in athletes. KINES 423 Psychology of Sports Injuries (3)Using lectures/whole class discussion formats, this course is intended to provide the students with th
KINES 424	Women and Sport 3 Credits	An interdisciplinary approach to contemporary issues related to women and sport from historical, physiological, psychological, and sociological perspectives.
KINES 425W	Physical Activity in Diverse Populations 3 Credits	This course includes examination of issues related to race, ethnicity, geography, income status, and other social factors across the lifespan for promoting physical activity through public health strategies and will include cont
KINES 426	Physical Activity and Public Health 3 Credits	Examines the role of physical activity in public health. Includes population level strategies for promoting physical activity in communities. KINES 426 Physical Activity and Public Health (3) An examination of the role of physic
KINES 427	Developmental Sport & Exercise Psychology 3 Credits	Developmental changes in the antecedents and consequences of physical activity across the lifespan. HD FS (KINES) 427 Developmental Sport & Exercise Psychology (3)Change is constant with physical activity - our reaso
KINES 428	Motivation and Emotion in Movement 3 Credits	Theories of motivational and emotional processes and their applications in movement settings. KINES 428 Motivation and Emotion in Movement (3) Motivation & Emotion in Movement will focus on the psychological process
KINES 429	Psychology of Sport Performance 3 Credits	Psychological theories of talent development and performance enhancement in sport. KINES 429 Psychology of Sport Performance (3) Psychology of Sport Performance will provide a psychological perspective on the phenc
KINES 430W	Groups in Physical Activity 3 Credits	During involvement in this course, students will be acquainted with how exercisers and athletes interact with the others within small group environments. Notably, athletes and exercisers are commonly structured into tight-kn
KINES 431	Concussion in Athletics: Brain to Behavior 3 Credits	National organizations have identified mild traumatic brain injury, also known as concussion, as a major health concern for injured athletes at high school, collegiate and professional levels. These injured athletes have focuse
KINES 440	Philosophy and Sport 3 Credits	An examination of human nature from the perspective of our participation in sport.
KINES 441	History of Sport in American Society 3 Credits	AMST 441 / KINES 441 History of Sport in American Society study of the background, establishment, and growth of sport in America from colonial times to the present, and the role of American sports in American culture an
KINES 445	Alcohol and Drug Education 3 Credits	Principles of integration and coordination of alcohol and drug education programs for health education and other health related professions.
KINES 446	History of Sport in the Modern World 3 Credits	History of sport in modern world, ca. A.D. 1500 to present; concentrates on role of sport in societies outside United States. KINES 446 History of Sport in the Modern World (3) (IL) The History of Sport in the Modern World in
KINES 447W	Representing Sport in Popular Film 3 Credits	Critical, contextual, and theoretical analyses of sport films focusing on popular narratives of social inequalities.
KINES 448	Coping with Life After Sport 1 Credits	Psychosocial concerns affecting student-athletes as they enter the transition period following sport disengagement, focusing on coping interventions. KINES 448 Coping with Life after Sport (1) KINES 448 is designed for stu
KINES 449	Sport in African History 3 Credits	Recent events in sporting history have precipitated changes in perception for many in Africa relative to the historic legacies of racism and colonial rule. These events lead to pivotal questions -What are the broader social and
KINES 452	Applied Cardiovascular Physiology 3 Credits	In-depth study of cardiovascular regulation during postural, environmental, and exercise stress. KINES 452 Applied Cardiovascular Physiology (3)First, the course begins with an intensive review of hemodynamics and basic
KINES 453	Environmental Physiology 3 Credits	This course examines physiological function of humans at rest and during prolonged or maximal exercise in conjunction with environment stress (heat, cold, altitude, hyperbaria).
KINES 454	Women's Health and Exercise Across the Lifespan 3 Credits	KINES 454 begins with a review of general principles of research conduct and publication, themes that will be carried throughout all material covered in this class. A review of the historical aspect of women's health research

KINES 455	Physiological Basis of Exercise as Medicine 3 Credits	KINES 455 reviews the physiological basis of exercise for enhancing health and protecting against chronic diseases. This course is designed for students interested in developing a deeper understanding of the physiological r
KINES 456	Physical Fitness Appraisal 4 Credits	In KINES 456, students assess the five components of health-related physical fitness through fitness testing measures: body composition, joint flexibility, muscle strength, muscle endurance and cardiorespiratory fitness. The
KINES 457	Exercise Prescription and Case Studies 3 Credits	Principles of exercise prescription; application of fitness appraisal based on current practices using evaluation and discussion of case studies. KINES 457 Exercise Prescription and Case Studies (3) The major purpose of this
KINES 458	Introduction to Electrocardiogram Interpretation 3 Credits	Reading and interpreting electrocardiograms are important skills for an exercise physiologist and many other allied health care practitioners. This skill features prominently in the job task analyses for industry certifications. Th
KINES 459	Community Engagement and Outreach in Kinesiology 3 Credits	Community outreach and engagement are two missions of the Department of Kinesiology. Towards these goals this course provides students with an opportunity to gain knowledge and master assessment skills in the teachi
KINES 460	Movement Disorders 3 Credits	Content in this course covers the major peripheral and central movement disorders and methods of their treatment. This course addresses the neuromuscular mechanisms underlying the coordination of voluntary movements
KINES 461W	Preparation for Research Project 2 Credits	Planning and preparation for research project. KINES 461W Preparation for Research Project (2) This course prepares students to conduct a research project in KINES 462W. Students will begin by critically examining differe
KINES 462W	Research Project 2 Credits	Completion of research topic. KINES 462W Research Project (2) During this course students will collect and analyze data for a research project. They will trouble shoot any data collection problems and learn how to use com
KINES 463	Acquisition of Motor Skills 3 Credits	Examination of principles of motor learning; the application of strategic factors such as: practice types, schedules, augmented information, and motivation. KINES 463 Acquisition of Motor Skills (3) This course is intended fo
KINES 464	Physical Education Programming and Practicum 3 Credits	This course is designed to provide students pursuing a health and physical education teacher certification in the Kinesiology degree with the conceptual foundation necessary to develop comprehensive and developmentally
KINES 465	Neurobiology of Sensorimotor Stroke Rehabilitation 3 Credits	This course is designed to expose students to the recent topics in motor stroke rehabilitation research through literature. KINES 465 Neurobiology of Sensorimotor Stroke Rehabilitation (3) This 3-credit course is designed to
KINES 467	The Science of Performance Enhancement 3 Credits	Evidence-based evaluation of performance enhancing substances and methods in sport. KINES 467 The Science of Performance Enhancement (3) Students will describe and evaluate the evidence base for substances and r
KINES 468W	Health Instruction in the School--Content and Method 3 Credits/Maximum of 3	Methods, materials, and units of instruction. KINES 468 Health Instruction in the School-Content and Method (3) This writing-intensive course is designed to provide students pursuing a health and physical education teache
KINES 470	Genetics and Human Physical Performance 3 Credits	Human genetic variation is ubiquitous and important functionally. How genetic profiles, such as those leading to a high proportion of fast muscle fibers, combined with individualized training environments underlie peak perfor
KINES 471	MOTOR CONTROL 3 Credits/Maximum of 3	Analysis of the mechanisms underlying the neural control and coordination of voluntary movements. Within this course, the students will get an in-depth knowledge of the mechanisms underlying the neural control and coord
KINES 481W	Scientific Basis of Exercise for Older Adults 3 Credits	Study of age-associated physical changes and the effects of exercise on the aging process.
KINES 483	Motor Patterns of Children 3 Credits	Development of motor patterns. Fundamentals of movement, basic motor skills, and adaptation of the body to external forces.
KINES 484	Advanced Biomechanics 3 Credits	The use of advanced biomechanics to provide an in-depth understanding of the principles which underpin human movement.
KINES 485	Science and Practice of Training Athletes 3 Credits	The primary purpose of this course is to provide students interested in applied exercise and health careers (strength and conditioning coaches, group fitness instructors, health and physical education teachers, personal train
KINES 488	Mechanics of Locomotion 3 Credits	This course examines the forces and motions characteristic of locomotion, with emphasis on walking, the most common human activity. Walking has been described as the most commonly performed human activity. Disease
KINES 491W	Research Proposal 3 Credits	This course prepares students to propose a research project in the field of Kinesiology. Students will choose to work within a sub-discipline of Kinesiology and be mentored by the course instructor with expertise in that area.
KINES 492W	Programming for Business and Agencies 3 Credits	Fundamentals of program development applied to corporate and private physical fitness businesses. KINES 492W Programming for Business and Agencies (3) This course will use an experiential approach to acquire knowle
KINES 493	Principles and Ethics of Coaching 3 Credits	The Principle and Ethics of Coaching examines the challenges of today's coaching profession through societal norms and expectations from the past and present. The course begins with a study of the coaching profession c
KINES 493W	Principles and Ethics of Coaching 3 Credits	The Principle and Ethics of Coaching examines the challenges of today's coaching profession through societal norms and expectations from the past and present. The course begins with a study of the coaching profession c
KINES 494H	Honors Research Project 1-6 Credits/Maximum of 6	Supervised student activities on honors research projects identified on an individual or small-group basis.
KINES 495	**SPECIAL TOPICS** 1-14 Credits/Maximum of 1	No description
KINES 495A	Practicum in Student Teaching 12 Credits	The teacher candidate will be placed in either an elementary or secondary school setting for the first 7.5 weeks of the student teaching experience, followed by placement in the level not selected first for the last 7.5 weeks. T
KINES 495B	Field and/or Research Practicum in Kinesiology 3-6 Credits	This is a required course for students in the Movement Science and Applied Exercise Health (AEH) Options within the Kinesiology curriculum. This course requires students to complete gainful leadership and experiential lear
KINES 495C	Exercise Science Practicum 4 Credits	This course places students in the work place with the expectation that the experience will allow them the opportunity to apply and integrate content from all the courses in the program. They will be placed at professional fitr
KINES 495D	Expanded Field and/or Research Practicum in Kinesiology 1-12 Credits/Maximum of 12	KINES 495D Expanded Field and/or Research Practicum in Kinesiology (1-6) This course, in combination with KINES 495B, places students in the workplaces or research settings with the expectation that these experiences
KINES 495E	Advanced Professional Development in Kinesiology 3 Credits	KINES 495E Advanced Professional Development in Kinesiology (3) This course is designed to provide undergraduate students the opportunities of fitness professional pre-certification preparation via lecture format, professi
KINES 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
KINES 496F	**SPECIAL TOPICS** 1-6 Credits	No description
KINES 496G	**SPECIAL TOPICS** 1-6 Credits	No description
KINES 496H	Kinesiology Honors Independent Study 1-9 Credits/Maximum of 18	For non-thesis independent study/research by Schreyer Honors College scholars.
KINES 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KINES 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KOR 1	Level One Korean A 4 Credits	Listening, speaking, reading, writing Korean: an introduction for beginners; basic structures and vocabulary; cultural elements.
KOR 2	Level One Korean B 4 Credits	Listening, speaking, reading, writing Korean: structures and vocabulary; cultural elements.
KOR 3	Level Two Korean A 4 Credits	Further development of listening, speaking, reading, writing skills in Korean; cultural elements.
KOR 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KOR 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KOR 110	Level Two Korean B 4 Credits	This is the fourth semester course of sequenced Korean study at Penn State. It is the Advanced-Intermediate course. KOR 110 Level Two Korean B (4) This is the second part of intermediate Korean and a continuation of Ko
KOR 120	Introduction to Korean Culture 3 Credits	Survey of Korean culture and society in historical contexts; exploration from antiquity to the contemporary period through diverse media. This course is designed as a multi-disciplinary introduction to Korean society. In surve
KOR 121	Korean Popular Culture 3 Credits	Survey of contemporary Korean popular culture in various forms, including pop music, film, TV drama, advertising, comics, and literature. What do we mark as 'Korean-style'? Are the images of Korea(ns) changing with the w
KOR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KOR 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KOR 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
KOR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

KOR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KOR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KOR 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KOR 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
KOR 401	Level 3 Korean A 4 Credits	KOR 401 is the first semester of third-year Korean, which is equivalent to Advanced-Intermediate Korean I. KOR 401 Level 3 Korean A (4) (IL) Korean 401 is the first half of the 3rd year Korean (or Advanced-Intermediate Kore
KOR 402	Level 3 Korean B 4 Credits	KOR 402 is the second semester of third-year Korean, which is equivalent to Advanced-Intermediate Korean II. KOR 402 Level 3 Korean B (4) (IL) Korean 402 is the second half of the 3rd year Korean (or Advanced-Intermedi
KOR 403Y	Level 4 Korean A 4 Credits	This is a four-credit writing intensive course designed for students who have completed Level Three Korean B (KOR 402) or the equivalent. The course aims to further improve students' proficiency in all four language skills, w
KOR 404	Level 4 Korean B 4 Credits	This is a four credit course designed for those who have completed KOR 403 (Level Four Korean A) or the equivalent. As a continuation of KOR 403, the course aims to further develop students' proficiency in all four languag
KOR 422	Introduction to Korean Linguistics 3 Credits	This course aims to develop linguistic knowledge about the Korean language. The course will focus on understanding the Korean language in terms of history, the writing system, lexicon, phonology, morphology, syntax, diale
KOR 423	Korean Media and Communication 3 Credits	This course explores historical, technological, and cultural aspects of Korean media and communication by examining both scholarly and primary sources such as film, radio, youtube, webtoons, online games, facebook, twit
KOR 424	Transnational Korean Literature 3 Credits	Exploration of seminal Korean texts, including poetry, fiction, autobiography, and criticism, from the early twentieth century to the contemporary era. This course provides a comprehensive overview of modern Korean literatur
KOR 425	Global Korean Cinema 3 Credits	Exploration of Korean cinema from the early twentieth century to the present, with an emphasis on its global/local dynamics. This course offers an introductory overview of Korean cinema. As we trace its history from the colo
KOR 450	Korean Cultures in Global Contexts 3 Credits	As Korea has gained significant economic and political power in the past few decades, people in many different parts of the world desire to know about Korean culture as a way to communicate with them. Korea has a long h
KOR 451	Food and Foodways in Korea 3 Credits	Food is an essential means to live but it is also an important element to tell us about who we are and how we live. Korean cuisine offers rich history and tradition. It is also a gateway to deeply understand and appreciate Kore
KOR 452	Korean Language and Culture 3 Credits	How do language, culture, and society affect one another? Through this course, students are introduced to the Korean language, culture, and society and how they are closely related to one another. We will examine essentia
KOR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
KOR 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
KOR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
KOR 497	Special Topics 3-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject related to Korea.
KOR 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
KOR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LER 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LER 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LER 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LER 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LER 424	Employment Compensation 3 Credits	Development and management of employee compensation systems. LER 424 Employment Compensation (3) Employment Compensation provides an overview of compensation programs, practices, and strategies. This cou
LER 425	Employee Benefits 3 Credits	The examination of employee benefits programs used by employers to meet the welfare needs of employees and their families. LER 425 Employee Benefits (3) This course is a comprehensive survey of the programs, princip
LER 445Y	Politics of Affirmative Action 3 Credits	Examines history, politics, and economics of the use of special programs to advance racial interests in the U.S. PLSC 445Y / AFAM 445Y / LER 445Y Politics of Affirmative Action (3) (US)(BA) This course meets the Bachelor
LER 485	The Business Side of Human Resources 3 Credits	Students will examine the interface between HR, the business model, and other aspects of the business organization. LER 485 The Business Side of Human Resources (3) Students will have the opportunity to learn about im
LER 488	Career Development Seminar I 1.5 Credits	This course features an introduction to several useful career development resources, development of a personal profile of your career-related strengths and interests, exploration of career options, creation of a career develop
LER 489	Career Development Seminar II 1.5 Credits	This course is the second of two 1.5-credit seminars designed to help LER majors launch their career in labor, employment relations, or human resources. Both seminars guide students through the process of charting their c
LHR 83S	First-Year Seminar in Labor and Human Resources 3 Credits	LHR 83S meets the Bachelor of Arts degree requirements. This course provides a general introduction to the field of labor, employment relations, and human resources, as well as a more in-depth examination of an issue or t
LHR 100	Exploring Work and Employment 3 Credits	Work and employment are central parts of the human experience. With that in mind, this course has two main objectives. First, to help better prepare students for the role that work and employment will play in their lives. And
LHR 136	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid o
LHR 136Y	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid o
LHR 160N	The Virtual Transformational Leadership Development Experience 3 Credits	The Virtual Transformational Leadership Development (VTLD) Experience is designed to help develop the next generation of leaders to serve as agents of change in pursuit of a more civil, equitable, and just workplace, societ

LHR 165N	Work and Literature 3 Credits	If you get a job out of college, work eight hours a day, fifty weeks a year, and retire at age 65, at that point you have will spent roughly one third of your adult, waking life at work. And that is just paid work. Add in housework,
LHR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in-depth, a comparatively narrow subject that may be topical or of special interest.
LHR 201	Employment Relationship: Law and Policy 3 Credits	LHR 201 surveys U.S. employment law. It begins with an overview of general legal concepts necessary to understanding the US legal system. It next examines the employment relationship and the employment contract, corr
LHR 202	Understanding Employee Behavior 3 Credits	The course will be offered at an introductory level. It is designed to encourage students to explore individual and group behavior at work. The ability to describe, explain and analyze concepts in this course is critical to apprec
LHR 304	Labor and Employment Relations Fundamentals 3 Credits	The course surveys the main elements of modern labor and employment relations systems in the U.S. and beyond. The course encourages students to use a framework for evaluating workplace outcomes according to three
LHR 305	Human Resources Fundamentals 3 Credits	This course will provide students with an opportunity to understand and apply important concepts concerning human resources in the workplace. Students will learn to think of the issues in the class from both the employees
LHR 312	Research Methods in Labor and Employment Relations 3 Credits	The objective of this course is to enhance students' abilities to use a range of methodologies to evaluate and conduct research in the field of employment relations and human resource management. LHR 312 Employment R
LHR 400	Comparative Employment Relations Systems 3 Credits	Analysis of structure and elements of employment relations systems in developed and developing areas. LHR 400 Comparative Employment Relations Systems (3) (IL)(BA) This course meets the Bachelor of Arts degree requi
LHR 401	The Law of Labor-Management Relations 3 Credits	Development of Anglo-American law regulating collective bargaining, with emphasis on American labor-management relations under Wagner, Taft-Hartley, and other acts. LHR 401 The Law of Labor - Management Relations (
LHR 403	International Human Resource Studies 3 Credits	Course exploring human resource management from an international perspective. LHR 403 International Human Resource Studies (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements. This course on Inter
LHR 409	Leadership Development: A Life-Long Learning Perspective 3 Credits	The course examines the continuing influence of social and environmental factors in shaping leadership and leadership development. LHR (OLEAD) 409 Leadership Development: A Life-Long Learning Perspective (3)(BA) This
LHR 410	Employment Strategies for People with Disabilities 3 Credits	Develop knowledge, skills, and resources necessary to understand and practice effective employment strategies in working with people with disabilities. This course is designed for students to develop knowledge, skills, and
LHR 426	Staffing and Training Strategies in Organizations 3 Credits	This course focuses on the theory and practice of human resource staffing and training in organizations. It provides the conceptual framework for understanding the staffing and training function as a factor of production and
LHR 427	Understanding Business Processes for LHR Professionals 3 Credits	This course examines human resource management (HRM) and employment relations (ER) from a strategic perspective embedded in a complex and evolving organizational system. To be effective, students must understand
LHR 428	Total Rewards 3 Credits	This course requires students to learn the link between company's strategy and compensation, and understand core policies necessary to develop effective compensation systems. The core policies include internal alignmen
LHR 429	Conducting Workplace Investigations 3 Credits	A 400-level course that presents the incident management process in a manner that is relevant to managers, human resource professionals, and labor relations professionals. The course focus on that investigative process m
LHR 434	Advanced Collective Bargaining and Contract Administration 3 Credits	This course examines, at an advanced level, the theory, practice, and impact of the major phases of union organizing, collective bargaining, and contract administration. Upon completion of this course students should be ab
LHR 435	Labor Relations in the Public Sector 3 Credits	Analysis of labor relations problems within different areas of public employment. LHR 435 Labor Relations in the Public Sector (3)(BA) This course meets the Bachelor of Arts degree requirements. Upon completing this cours
LHR 437	Workplace Dispute Resolution 3 Credits	Dispute resolution practices and procedures used in the workplace and employment law settings. LHR 437 Workplace Dispute Resolution (3)(BA) This course meets the Bachelor of Arts degree requirements. This course exa
LHR 444	Workplace Safety and Health: Principles and Practices 3 Credits	The role of employees, unions, employers, and government in dealing with work-related safety and health issues. LHR 444 Workplace Safety and Health: Principles and Practices (3)(BA) This course meets the Bachelor of Art
LHR 450	Developing a Career in Human Resources or Employment Relations 3 Credits	The overall goals for this course are to enhance student awareness of aspects of themselves that are related to career success and satisfaction, guide student exploration of the world of work, and equip students with strateg
LHR 452	Human Resources and Employment Relations in Tech 3 Credits	Students will study the theory, practice, and controversies related to human resources and employment relations in the tech sector. This course will explore how organizations manage the people who produce technology and
LHR 458Y	History of Work in America 3 Credits	LHR 458Y, "History of Work in America," a writing-intensive course, studies selected problems in the history of work in the United States. This course addresses economic, technological, social, cultural, and political aspects
LHR 459	Collective Bargaining in Professional Sports 3 Credits	In this course, students will learn how collective bargaining works in professional sports and how it compares to bargaining in other industries. Students explore the process of collective bargaining in professional sports in th
LHR 460	Ethics in the Workplace 3 Credits	The course will explore ethics from both a normative and behavioral perspective. A key operating assumption of this course is that every employee of an organization has a responsibility to demonstrate ethical leadership. Th
LHR 464	Communication Skills for Leaders in Groups and Organizations 3 Credits	Theory- and research-based communication skills for leaders dealing with work-related problems in contemporary groups and organizations. LHR 464 Communication Skills for Leaders in Groups and Organizations (3)(BA) T
LHR 465	Collective Decision Making 3 Credits	Application of theories of decision making to work-related issues in groups and organizations requiring collective resolution and action. LHR 465 Collective Decision Making (3)(BA) This course meets the Bachelor of Arts deg
LHR 466	Labor Union Structure, Administration and Governance 3 Credits	American unions have long played an important role in the American economy. However, in the last forty years, the number of workers represented by unions has declined steadily. Within this same time frame unions have be
LHR 468	American Labor Unions 3 Credits	This course will explore the current state of American labor unions and the historical, cultural, legal, political, and economic contexts within which they operate. In addition, we will examine alternative organizational forms thr
LHR 471	Comparative Human Resource and Employment Relations Practices: Virtual Travel to 3 Credits	The goal of this course is to provide the information and context for understanding how the HR and ER practices differ in different contexts (countries). In addition, the course will provide a nudge for the students towards a p
LHR 472	Work-Life Practices and Policies 3 Credits	Explore the causes and consequences of conflicts between work, family, and other life commitments, and how these may be resolved. LER 472 Work-Life Practices and Policies (3)(BA) This course meets the Bachelor of Arts
LHR 475H	Labor in the Global Economy 3 Credits/Maximum of 3	This seminar focuses on how the nature of work is changing in the "new economy" and the implications for economic opportunity and inequality. Sections of the course examine: theoretical approaches to understanding con
LHR 480	Current Issues in Human Resources 3 Credits	Identity and race, gender and heritage, centrality and marginality, self and other, as expressed in literary works from around the world. Students will study current trends that are shaping human resources management. These
LHR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LHR 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LHR 495	Labor Studies Internship 1-12 Credits/Maximum of 12	Supervised practicum in labor relations setting with union, management, or government agency.
LHR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LHR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LHR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

LARCH 60	Cultural History of Designed Places 3 Credits/Maximum of 3	LARCH 60 is an introduction to the development of designed outdoor places from the ancient past to present day. Designed landscapes and urban spaces are expressions of cultural values and environmental influences. Unc
LARCH 65	Built Environment and Culture: Examining the Modern City 3 Credits	This interdisciplinary course is based on the premise that space is an active structuring element of human experience. Using theoretical orientations from disciplines like Landscape Architecture, Architecture, Urban Planning,
LARCH 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LARCH 115	Design I: Intro Spatial Composition 3 Credits	Landscape Architecture Studio 1 is the first design studio in the undergraduate Landscape Architecture curriculum. This studio introduces students to foundational concepts and methods in landscape architecture with a prim
LARCH 116	Design II: Spatial Design 3 Credits	Landscape Architecture Studio 2 - the second design studio in the undergraduate Landscape Architecture curriculum - introduces students to small-scale site design. Students are introduced to essential topics in site design
LARCH 125	Landscape Architecture Orientation Seminar 1 Credits	Introductory seminar involving readings on significant issues in landscape architecture. LARCH majors only. LARCH 125 Landscape Architecture Orientation Seminar (1) LARCH 125 is a seminar course, the first of many in an
LARCH 145	Ecology and Plants I 3 Credits	LARCH 145 introduces students to plants, their ecological context, threats to ecosystems and the various roles that landscape architects play in the design of healthy ecosystems. Plants are central to landscape architecture.
LARCH 155	Skills Lab I: Hand & Digital Graphics 2 Credits	Landscape Architecture Skills Lab 1 is the skills lab that runs concurrently with the first design studio in the undergraduate Landscape Architecture curriculum. This skills lab introduces students to the fundamentals of visual c
LARCH 156	Skills Lab II: Hand & Digital Graphics 2 Credits	Landscape Architecture Skills Lab 2 is the skills lab that runs concurrently with the second design studio in the undergraduate Landscape Architecture curriculum. This skills lab will develop students at the intermediate level c
LARCH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LARCH 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LARCH 215	Design III: Site Design 4 Credits	Landscape Architecture Studio 3 - the third design studio in the undergraduate Landscape Architecture curriculum - follows LARCH 116 (Spatial Design) and further explores site design through expanded complexity of site a
LARCH 216	Design IV: Expanded Use, Scale, and Context 4 Credits	Landscape Architecture Studio 4 - the fourth studio in the undergraduate Landscape Architecture curriculum - follows LARCH 215 and introduces students to the broader perspective of landscapes as expressions of cultural
LARCH 222	Design Theory Seminar 1 Credits	Inquiry-based reading and discussion of design theory literature relevant to the focus and content of LARCH 212. LARCH 222 Design Theory Seminar (1) LARCH 222 is the companion seminar to the design studio LARCH 21
LARCH 235	Design Implementation I: Grading 3 Credits	Introduction of basic principles and tools supporting landform data, site systems, grading, visualization representation and site circulation. LARCH 235 Design Implementation I: Grading (2) As an introductory design impleme
LARCH 236	Design Implementation II: Materials 3 Credits	The landscape architect calls upon a rich array of materials to construct the built elements of landscape:walls, ground surfaces, overhead structures and furniture systems. The functional success and durability of many histor
LARCH 245	Ecology & Plants II 3 Credits	This course applies knowledge gained in LARCH 145 by emphasizing planning and design based upon a systems approach to plants, soil and water. The course consists of lectures, campus walks, guest lectures and one da
LARCH 246	Ridge & Valley in the Field 1 Credits	LARCH 242 Ridge & Valley Field Study explores the intrinsic links between landform, geophysical and biological processes, vegetation communities, and human manipulation of the landscape through time. It comprises a ser
LARCH 255	Skills Lab III: Digital Graphics 2 Credits	Landscape Architecture Skills Lab 3 is the skills lab that runs concurrently with the third design studio in the undergraduate Landscape Architecture curriculum. This skills lab will develop students at the advanced level of visu
LARCH 256	Skills Lab IV: GIS 2 Credits	Landscape Architecture Skills Lab 4 is the skills lab that runs concurrently with the fourth design studio in the undergraduate Landscape Architecture curriculum. This skills lab will introduce geographic information system (GI
LARCH 276	Human Dimensions of Design: History & Theory 3 Credits	The human dimensions of placemaking must consider the types of places people populate. New to civilization, the 21st century has been characterized as the urban century. More people live in urban areas than in rural areas
LARCH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LARCH 297N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is an Inter-Domain GenEd course
LARCH 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LARCH 315	Design V: Expanded Use, Scale, and Context 4 Credits	Landscape Architecture Design Studio V - the fifth design studio in the undergraduate Landscape Architecture curriculum - follows LARCH 216 and introduces community and spatial design that accommodates civic and pub
LARCH 321	Design Theory Seminar 1 Credits	Inquiry-based reading and discussion of design theory literature relevant to the focus and content of LARCH 311. LARCH 321 Design Theory Seminar (1) LARCH 321 is the companion seminar to the design studio LARCH 31
LARCH 322	Design Theory Seminar 1 Credits	Inquiry-based reading and discussion of design theory literature relevant to the focus and content of LARCH 312. LARCH 322 Design Theory Seminar (1) LARCH 322 is the companion seminar to the design studio LARCH 31
LARCH 335	Design Implementation III: Planting Methods 3 Credits	The third of four courses in the landscape architecture implementation sequence, this course addresses the applied principles, tools and techniques of planting design implementation, with a focus on landscape planting met
LARCH 336	Design Implementation IV: Stormwater 3 Credits	This course is the fourth of four studio courses in the implementation sequence, all of which focus upon the more technical aspects of landscape architectural practice. By means of lectures, studio problems, assigned readin
LARCH 365W	Contemporary Trends in Landscape Architecture 3 Credits	LARCH 365(W), Contemporary Trends, is a writing-intensive course that enables a more thorough investigation of social, environmental and cultural issues as they relate to design. The course is grounded in three basic conce
LARCH 375	Human Dimensions of Design - Applied 3 Credits	Within the practice of landscape architecture, it is critical for designers to consider and integrate the human dimensions of place. Students will continue to learn to identify human dimensional issues and better understand the
LARCH 386	Professional Practice 3 Credits	An investigation of current professional and business practices in the field of landscape architecture. For Landscape Architecture majors only. LARCH 386 Professional Practice (3) LARCH 386 has a three-part role. It compris
LARCH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LARCH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LARCH 405N	Bicycling Culture and Urban Design 3 Credits	KINES 405N, a study abroad course, based in a bicycle friendly European city, provides students with an opportunity to experience the programs, policies, infrastructure (including urban design features) and culture associate
LARCH 414	Design and Theory V: Advanced Landscape Architectural Design 5-15 Credits/Maximum of 15	Review of landscape architectural theories and issues; supports development of comprehensive design study and/or independent honors (Thesis-Based) design projects. LARCH Majors only. LARCH 414 Design and Theory
LARCH 424	Design Theory Seminar 3 Credits/Maximum of 9	Inquiry-based reading and discussion of design theory literature relevant to contemporary landscape architecture issues. Topics vary each semester. LARCH 424 Design Theory Seminar (1-3) LARCH 424, Design Theory Ser
LARCH 450	Geodesign: Geospatial Technology for Design 3 Credits	Interactive geodesign and digital design studio. LARCH 450 Geodesign: Geospatial Technology for Design (3) This course addresses the role of continually evolving information technologies in landscape architectural researc
LARCH 494	Research Projects - Honors 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LARCH 495	Internship 1-13 Credits/Maximum of 13	Supervised off-campus, non-group instruction including individual field experiences, practicums or internships. Written and oral critique of activity required.
LARCH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LARCH 496H	Independent Studies - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LARCH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LARCH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LARCH 499A	Design Theory Seminar 1 Credits	Inquiry-based reading and discussion of design theory literature relevant to the focus and content of the associated design studio course, LARCH 499B. LARCH majors only.
LARCH 499B	Design and Theory VI: Contemporary/International Landscape Architectural Design I 5 Credits	Study of and design for sites, programs, and social groups associated with ongoing contemporary landscape architectural concerns. LARCH majors only.
LARCH 499D	Contemporary/International Special Topics 3 Credits	Special topics related to, and study in conjunction with 499B. Landscape Architecture majors only.
LLED 5	College Reading Improvement I 3 Credits	Improvement of basic reading skills: vocabulary development; literal and interpretative comprehension; application of these skills more efficiently to college work.
LLED 10	College Reading Improvement II 3 Credits	Development of higher level comprehension, vocabulary, and study skills incorporated into content area reading.

LLED 215N	Children's Picture Books as Multimodal Texts 3 Credits	Children's picture books are often described as fundamental in nurturing the development of young children into engaged readers and fearless writers. Many adults have a special place in their hearts for picture books they lo
LLED 227	Understanding Childhood through Children¿s Literature: Books, Media, Toys 3 Credits	This course is transdisciplinary in nature, looking at the multiple ways children's cultures are constructed in contemporary and canonical literature for children, transmitted through films, games, and toys. It blends approaches
LLED 235	Chinese Culture in Child Lit 3 Credits	Children's literature reveals how a culture imagines itself and offers a window into other cultures for young readers. What a child reads and what is read to the child shows the values the child's nation holds dearly. However, i
LLED 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LLED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LLED 302	Teaching Children's Literature 3 Credits	The purpose of LLED 302 is to familiarize teacher candidates with different theories and practices of teaching literature in early childhood and elementary classrooms. Candidates are immersed in the study and experiences o
LLED 400	Teaching Literacy in Early Childhood 3 Credits	Principles, problems, materials, and techniques involved in the development of speaking, listening, writing, and reading in early childhood in homes, schools, and communities. This course is intended to help teacher candida
LLED 401	Teaching Literacy in Elementary School 3 Credits	Principles, problems, materials, and techniques involved in teaching speaking, listening, writing, and reading in the elementary school. LLED 401 Teaching Literacy in Elementary School (3) is intended to acquaint teacher can
LLED 411	Teaching Language Arts In Secondary Schools I 3 Credits	Exploration of language, literacy, and culture and development of curricular designs for teaching language arts in secondary schools. LL ED 411 is designed to provide pre-service secondary English and communications tea
LLED 412W	Teaching Language Arts in Secondary Schools II 3 Credits	Exploration of language, literacy, and culture and development of curricular designs for teaching language arts in secondary schools. LL ED 412W Teaching Language Arts in Secondary Schools II (3) This three-credit course
LLED 420	Teaching Adolescent Literature and Literacy 3 Credits	Exploration of adolescent literacy and curricular designs for teaching adolescent literature and literacy in secondary schools. LL ED 420 is designed to provide the personal experiences and inquiry with adolescent literature a
LLED 421	Teaching Writing in Secondary Schools 3 Credits	This course will provide preparation for teaching writing in the secondary school context. Students completing this course will meet the following objectives: -Understand one's own history as a writer and as a student in relat
LLED 422	Teaching the Young Adult Literature Workshop 3 Credits	This course is designed to familiarize students with the genre and field of young adult (YA) literature and to provide a rationale and basis for practice for teaching adolescent literature in English Language Arts (ELA) courses u
LLED 445	Teaching English in Bilingual/Dialectal Education 3 Credits	Theories, techniques, materials for teaching English speaking, reading, and writing to bilingual and nonnative speakers in elementary and secondary schools.
LLED 450	Content Area Reading 3 Credits	Study of reading skills and materials for specific content areas; diagnostic and instructional procedures for classroom teachers. LLED 450 Content Area Reading (3) LLED 450 is designed to explore the roles of texts and liter
LLED 462	The Art of the Picturebook 3 Credits	The Art of the Picturebook explores a wide range of picturebooks with the idea that illustrations are visual art evoking thoughts and feelings. Because picturebooks provide aesthetic experiences and contribute to aesthetic d
LLED 464	Nonfiction Literature for Children and Adolescents 3 Credits/Maximum of 3	Nonfiction Literature for Children and Adolescents explores a wide range of nonfiction literature in a variety of subject areas including social studies, math, science, and the arts. This course takes the position that reading no
LLED 465	Fantasy Literature for Children 3 Credits	Fantasy Literature for Children explores a range of fantasy literature including literary fairy tales, toy fantasies, ghosts/horror/suspense, science fiction, reworked fairy tales, low fantasy, and high fantasy. This course will cons
LLED 480	Media Literacy in the Classroom 3 Credits	Exploration of media languages and literacy in classrooms, learning in an electronic age; issues, ideas, and teaching strategies.
LLED 495	School Practicum in Reading 1-18 Credits/Maximum of 18	Supervised practicum providing field experiences at any grade level, with opportunities to assume various teaching roles.
LLED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LLED 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LLED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LLED 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LANG 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LANG 196	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
LANG 196A	Elementary Intensive Turkish I 4 Credits	Intensive introduction to Turkish: first half of elementary sequence in reading, writing, speaking, listening, cultural contexts.
LANG 196B	Elementary Intensive Turkish II 4 Credits	Intensive Introduction to Turkish: second half of elementary sequence in reading, writing, speaking, listening, cultural context.
LANG 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LANG 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LANG 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
LANG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LANG 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LANG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LANG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
LANG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LANG 499	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
LATIN 1	Elementary Latin 4 Credits	Pronunciation; inflections; simple rules of syntax.
LATIN 2	Elementary Latin 4 Credits	Advanced syntax and sentence structure.
LATIN 3	Intermediate Latin 4 Credits	Selected readings from representative authors.
LATIN 51	Elementary Intensive Latin for Graduate Students I 3 Credits	Intensive introduction to Latin: first half of graduate intensive sequence in elementary reading, writing, syntax, and cultural contexts. LATIN 051 Elementary Intensive Latin for Graduate Students I (3)This is the first in a series
LATIN 52	Elementary Intensive Latin for Graduate Students II 3 Credits	Intensive introduction to Latin: second half of graduate intensive sequence in elementary reading, writing, syntax, and cultural contexts. LATIN 052 Elementary Intensive Latin for Graduate Students II (3)This is the second in
LATIN 53	Intermediate Intensive Latin for Graduate Students 3 Credits	Continued intensive study of Latin at the intermediate level: reading, writing, syntax, and cultural contexts. LATIN 053 Intermediate Intensive Latin for Graduate Students (3)This is the third in a series of three courses designe
LATIN 101	Introductory Latin 4 Credits	Introduction to Latin forms, syntax, and vocabulary. LATIN 101 Introductory Latin (4) The aim of LATIN 101 is to introduce students to the fundamentals of classical Latin as soon as possible. Classical Latin is the literary diale
LATIN 102	Advanced Latin 4 Credits	Advanced study of Latin grammar, syntax, and vocabulary. LATIN 102 Advanced Latin (4) LATIN 102 continues from LATIN 101. Students who have taken at least three years of high school Latin may qualify to enroll in the co
LATIN 203	Latin Reading and Composition 4 Credits	The course reviews Latin grammar, syntax, and vocabulary and introduces students to classical Latin poetry and prose. LATIN 203 Latin Reading and Composition (4)This four-credit course is at the intermediate-level and foll
LATIN 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LATIN 402	Republican Literature 3-12 Credits/Maximum of 12	Selected works by Plautus, Lucretius, Catullus, Cicero (content varies).

LATIN 403	Augustan Age Literature 3-12 Credits/Maximum of 12	Selected works by Virgil, Horace, Propertius, Tibullus, Ovid, Livy (content varies).
LATIN 404	Silver Age Literature 3-12 Credits/Maximum of 12	Selected works by Petronius, Seneca, Tacitus, Juvenal, Martial, Pliny the Younger (content varies).
LATIN 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LATIN 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LATIN 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LATAM 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
LATAM 499H	Foreign Studies (Honors) 1-12 Credits/Maximum of 18	Specific course content, learning objectives, and travel details vary as determined by the instructor and the Latin American Studies Program.
LTNST 100	Introduction to Latina/o Studies 3 Credits	This course provides an interdisciplinary introduction to the study of Latinas/os in the U.S., beginning with a historical overview of the major events in the U.S. southwest, Mexico, and the Caribbean that led to the creation of
LTNST 127	Introduction to U.S. Latina/o History 3 Credits	This course provides an interdisciplinary introduction to the study of Latinas and Latinos in the United States. The course includes a historical overview of the major events in the U.S. Southwest, Mexico, the Caribbean, and
LTNST 139	Latino/a Philosophy 3 Credits	This introduction to Latino/a Philosophy covers the historical experience of Latino/a peoples and the impact that those experiences have had and can have on "American" philosophy. It also covers race, class, gender, and et
LTNST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to eplore, in depth, a comparatively narrow subject that may be topical or of special interest.
LTNST 226	Latina and Latino Border Theories 3 Credits	English 226 will constitute a wide-ranging examination of contemporary texts (1960-present) central to the construction of contemporary Latino/a culture. ENGL 226 Latina and Latino Border Theories (3) (GH;US;IL)(BA) This
LTNST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LTNST 300	Latinx Gender and Sexuality Studies 3 Credits	WMNST/LTNST 300 Latinx Gender and Sexuality Studies (3) (GH/US/BA) This course examines the historical development, theoretical premises, and political, social, and artistic contributions of Latinx feminisms in the Unitec
LTNST 315N	Spanish and Spanish-speakers in the U.S. 3 Credits	In this course, we investigate various aspects of the language(s) and language behaviors of U.S. Latinos. The course is premised on the idea that language is a crucial component in the formation of identity. To understand La
LTNST 326	Reading the BorderLands: Geography and Identity Along the U.S.-Mexico Border 3 Credits	This course examines representations of the U.S.-Mexico border in relation to the actual geographic space. SPAN 326 Reading the Border/Lands (3) (GH;US) This class will center on discussions of the U.S.-Mexico borderlan
LTNST 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LTNST 403	Latina/o Literature and Culture 3 Credits	Literary and other forms of cultural expression (film, music, art, and theater) are compared across different Latina/o communities. LTNST (CMLIT) 403 Varieties of Latina/o Cultural Expression (3) (US)(BA) This course meets th
LTNST 426	Chicana and Chicano Cultural Production: Literature, Film, Music 3 Credits/Maximum of 3	An in-depth study of Chicana/Chicano literature, film, and music from the inception of the Chicano Movement (1965-1975) to the present. ENGL 426 Chicana and Chicano Cultural Production: Literature, Film, and Music (3) (
LTNST 467	Latin America and the United States 3 Credits	Historical development of policies of the United States with regard to Latin- American affairs from colonial times to the present.
LTNST 470	Youth Cultures in Latin(a/o) America 3 Credits	Young people have been at the center of political and cultural revolutions around the world and throughout history. For example, revolutions, urban movements, ethnic/racial pride, LGBTQ+, feminist movements, music basaa
LTNST 479	U.S. Latina/o Culture en Espanol 3 Credits	This course is conducted in Spanish and will analyze some of the central themes that shape the diverse Latina/o experiences in the United States. Some of the main topics that the course will address include: the politics of l
LTNST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LPE 496	Individual Studies 1-9 Credits/Maximum of 9	Creative projects with a professional orientation, including nonthesis research, that are supervised on an individual basis and which fall outside the scope of formal courses.
LPE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest with a professional orientation that may be offered infrequently.
LDT 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction
LDT 100	World Technologies and Learning 3 Credits	LDT 100 World Technologies and Learning (3) (GS;IL) explores the role of technology in learning across international contexts and the impact of these new learning technologies on world cultures. LDT 100 examines the socic
LDT 101	Effective Communication and Teaching Strategies for Corporate and Community Edu 3 Credits	LDT 101 introduces the principles of pedagogical communication to students interested in education programming for community-based, corporate, non-profit, healthcare, museum, or cultural settings. Students will learn ski

LDT 110N	Making with Art and Learning Technologies 3 Credits	This course surveys the intersection of art and technology for making in regard to content creation for learning. Topics covered include maker spaces, DIY communities, online content creation as well as creativity, art, STEM
LDT 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LDT 215	Creating Designs for Learning 3 Credits	This general education course introduces students to basics of the learning design field. The course introduces theories, processes, and techniques that students need to create designs for educational and training programs
LDT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LDT 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LDT 401	Gaming to Learn 3 Credits	LDT 401 Gaming to Learn explores role of gaming, video gaming, gamification, and simulations in educational contexts including K-12 schools, corporations, cultural organizations, and higher education settings. LDT 401 inc
LDT 410	Advanced Learning Experience Design Lab 3 Credits	This course provides students with advanced, practice-based experience in learning experience (LX) design. Students will learn advanced strategies in LX (including requirements, design, and evaluation) as well as situate LX
LDT 415A	Systematic Instructional Development 3 Credits	Preparation in the use of a nine-step model for systematically analyzing instructional problems and developing validated, practical solutions. LDT 415A Systematic Instructional Development (3) LDT 415A introduces the instr
LDT 433	Teaching and Learning Online in K-12 Settings 3 Credits/Maximum of 3	Explores uses of online technologies for K-12 settings including cybercharter and blended settings. In this course, Teaching and Learning Online for K-12 Educators, students will receive an overview of the current status of K
LDT 440	Educational Technology Integration 3 Credits	Technology integration in educational settings. EDTEC 440 Educational Technology Integration (3)This course introduces educators to broad-based educational computing applications. This course introduces ideas, skills, co
LDT 467	Emerging Web Technologies and Learning 3 Credits	This course examines emerging Web technologies and explores their application to learning and education.
LDT 495	Internship in Learning, Design, and Technology 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
LDT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LDT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LA 83	First Year Seminar in the Liberal Arts 1 Credits	An exploration of a theme through the lens of the humanities, social sciences and diverse cultural perspectives.
LA 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LA 103	Professional Development for the Liberal Arts Student 1 Credits	This course is designed to provide you with the techniques and information necessary to specify and implement post-graduation educational and career plans. This course is designed to assist students in the College of the L
LA 135N	College, Work, and Citizenship in the 21st Century 3 Credits	Concentrated on the 21st-century, this course engages students in cutting-edge information about the critical roles the humanities and social sciences play in the high-tech global economy, now and in the future. In this cours
LA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LA 199	Foreign Study--Liberal Arts 1-9 Credits/Maximum of 9	Study in selected foreign countries of the cultural, institutional, and/or social development of the host country.
LA 201W	Experiential Learning Portfolio 3 Credits	Students will learn how to assemble a portfolio that reflects their progress, knowledge, and insight into college-level study. L A 201W Experiential Learning Portfolio (3) This course will instruct students in what has become a
LA 202	Innovation and Entrepreneurship in the Liberal Arts 3 Credits	Entrepreneurs and liberal arts graduates share a surprisingly broad array of learned traits. Both rely on well-trained habits of critical, analytical, and systems thinking, effective oral and written communication, perspective taki
LA 295	Undergraduate Field Experience or Practicum 1-18 Credits/Maximum of 18	Approved experience, related to student career objectives, in agencies external to the University.
LA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LA 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LA 335N	Media, Social Justice, and the Public Humanities 3 Credits/Maximum of 3	This course introduces students to the ideas and skills that comprise "public humanities," with a focus on digital media tools. It aims to develop student understanding of how public humanities work can address present-day
LA 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
LA 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical of of special interest.
LA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LA 402	Fundraising Leadership: Building a Strong Base 3 Credits	The course will focus on the fundamentals of fundraising and leadership, including communications, management of events and people, and stewardship.
LA 404	Careers in Fundraising and Development 3 Credits	This course will guide students through an introduction to the fundraising/advancement profession, including a review of the history and emergence of the profession. The course will also touch on key issues such as professi
LA 424	Liberal Arts Venture Development 3 Credits	Students who complete this course will be able to create a nonprofit or for-profit liberal arts venture based on the iterative vetting of an original idea rooted in careful and rigorous research; examine the impact of that venture
LA 435	Public Humanities Capstone Experience 3 Credits	This course is the Capstone Experience for Public Humanities Fellows in the Humanities Institute. The course provides students with hands-on experience applying skills and insight gained during the prerequisite course, Intr
LA 494	Research Project Courses 1-12 Credits	Supervised student activities on research projects identified on an individual or small-group basis. (No course under L A 294/494 may be offered without approval of the associate dean of liberal arts. All courses must have a
LA 494H	Research Project Courses 1-12 Credits	Supervised student activities on research projects identified on an individual or small-group basis. (No course under L A 294/494 may be offered without approval of the associate dean of liberal arts. All courses must have a
LA 495	Undergraduate Field Experience or Practicum 1-12 Credits/Maximum of 12	Approved experience, related to student career objectives, in agencies external to University.
LA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
LA 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
LA 499	Foreign Study--Liberal Arts 1-9 Credits/Maximum of 9	Study in selected foreign countries of the cultural, institutional, and/or social development of the host country.
LST 250	Peer Tutoring in Research 3 Credits	LST 250 is a research-based class that prepares students to critically think about, use, and produce information. Through a library and information science lens, this class will explore, study, and interrogate the research proc
LST 301	Information Research Methods and Systems 1 Credits	Survey of information theories, structures and resources as related to library research methods for social, behavioral sciences and the humanities.

LST 490	Archival Management 1-3 Credits/Maximum of 3	Introduction to the principles and procedures in the management of archives and historical manuscripts.
LST 495	Internship 1-9 Credits/Maximum of 9	Directed internship in library studies, archival administration, rare books curation and/or preservation.
LST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses. Students may not register for these courses without prior written approval of a
LING 1	Language, Life and Society 3 Credits	In this course, we survey essential topics in the study of language with a view toward providing an overview of the approaches, methods, and goals of linguistics. We examine fundamental questions like what are the origins c
LING 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 98	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 100	Foundations of Linguistics 3 Credits	The course consists of a general survey of language and linguistics. A number of topics relating to human knowledge and use of language are systematically and scientifically investigated. The focus of the course is not on ar
LING 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LING 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LING 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LING 382	Language and Culture in Africa 3 Credits	This course will provide an introduction to language in Africa from linguistic and cultural perspectives. Course topics include: the study of African language families and what they teach us about the history of the continent, th
LING 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
LING 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
LING 402	Syntax I 3 Credits	Principles of grammatical analysis in the generative framework; an overview of syntactic structures across languages. LING 402 Syntax I (3)(BA) This course meets the Bachelor of Arts degree requirements. The aim of this co
LING 404	Phonology I 3 Credits	LING 404 Phonology I (3)(BA) This course meets the Bachelor of Arts degree requirements. This course is about sound patterning in language. In particular, we will learn how human speech sounds are produced and how the
LING 405	Introduction to Historical Linguistics 3 Credits	Introduction to Historical Linguistics is designed to teach the theories, methods, and data linguists used to study ancient and modern languages and language families, and the connections that can be traced through langua
LING 410	Morphology 3 Credits	Morphology is the scientific study of words and word structure. This course provides a detailed exploration of morphological processes from a largely comparative method. Students are also introduced various formal models
LING 414	Phonetic Analysis: Acoustic and Auditory Phonetics 3 Credits	This course is an exploration of phonetic analysis with a focus on acoustic and auditory phonetics (the properties of sound waves, particularly speech sounds, and how hearers perceive sounds given the constraints of the hu
LING 429	Language and Thought 3 Credits	Relations between language and cognition; cognitive implications of normal and impaired language development; cognition and bilingualism. LING (PSYCH 426) 429 Language and Thought (3)(BA) This course meets the Bac
LING 446	L1 Acquisition 3 Credits	How children learn their first language; psycholinguistic aspects of lexical, syntactic, semantic, and phonological development. LING 446 (PSYCH 427) L1 Acquisition (3) (BA) This course meets the Bachelor of Arts degree re
LING 447	Bilingualism 3 Credits	Explores the social and psychological aspects of bilingualism; topics include languages in contact, transference, maintenance, and loss. LING 447 Bilingualism (3)(BA) This course meets the Bachelor of Arts degree requirem
LING 448	Sociolinguistics 3 Credits	Issues in the study of language in its sociocultural context; analysis of social dialects and speech styles. LING 448 Sociolinguistics (3)(BA) This course meets the Bachelor of Arts degree requirements. This course investigate
LING 449	Semantics I 3 Credits	LING 449 Semantics I (3)(BA) This course meets the Bachelor of Arts degree requirements. This course examines our best understanding of how humans produce and understand utterances to have particular meanings. This
LING 457	Psychology of Language 3 Credits	Overview of psychological research and theory on language processes, including speech perception, word recognition, meaning representation, comprehension, and language acquisition. LING (PSYCH) 457 Psychology of L
LING 493	Field Methods 3 Credits	In this course, students work directly (in groups) with a native speaker of a foreign language with which no one in the class has any prior familiarity. The students will work to uncover the set of sounds relevant to the language
LING 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LING 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
LING 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
LING 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be taught in one year or semester.
LING 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MGMT 100	Survey of Management 3 Credits	Introduction to organizational factors relevant to management processes, including leadership, motivation, job design, technology, organizational design and environments, systems, change. May not be used to satisfy Penn S
MGMT 100W	Survey of Management 3 Credits	Introduction to organizational factors relevant to management processes, including leadership, motivation, job design, technology, organizational design and environments, systems, change. May not be used to satisfy Penn
MGMT 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
MGMT 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MGMT 215	Entrepreneurial Mindset 3 Credits	This course provides the opportunity to learn to think like an entrepreneur in the broader context of social entrepreneurship, intrapreneurship, creative problem solving, opportunity recognition, and innovation. MGMT 215 Ent
MGMT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MGMT 296H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MGMT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MGMT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MGMT 301	Basic Management Concepts 3 Credits	MGMT 301 exposes undergraduate students to the fundamental principles and basic concepts of management, with emphasis on organizational design, management processes, leadership, motivation, and managing teams
MGMT 301H	Basic Management Concepts (Honors) 3 Credits	Study of fundamental principles and processes available to the understanding of management. Students will likely spend a major part of their lives working for one or, perhaps, leading one they have started. Although sound t
MGMT 301W	Basic Management Concepts 3 Credits	MGMT 301W, Basic Management Concepts, is a three credit course offered each semester across Penn State. MGMT 301W exposes undergraduate students to the fundamental principles and basic concepts of managemer
MGMT 320	Establishing Workforce Diversity and Inclusion 3 Credits	This course provides students with an understanding of the relevance and importance of diversity within corporate America as well as a review of global business practices. Students will examine marketing, management, an
MGMT 321	Leadership and Motivation 3 Credits	Applies organizational behavior theories, concepts, and skills to leading and motivating individuals and groups.
MGMT 326	Organizational Behavior and Design 3 Credits	Concepts, theories, and methods of managing people and designing organizations. MGMT 326 Organizational Behavior and Design (3) This introductory course covers the concepts, theories, and methods of managing peop
MGMT 331	Management and Organization 3 Credits	Designing organizations to effectively manage new technologies, structures, and people in changing global contexts.
MGMT 341	Human Resource Management 3 Credits	Introduction to the strategic planning and implementation of human resource management, including staffing, development, appraisal, and rewards.

MGMT 345	Cultural Intelligence in Leadership and Management 3 Credits	Globalization and technology have changed the way organizations interact with internal and external constituents. Leaders must strive to create an environment where individuals adapt in socially responsible ways in order to
MGMT 355	Leadership and Change in Organizations 3 Credits	This course focuses on concerns with understanding yourself as a leader in organizations-especially organizations undergoing change.
MGMT 365	Social Entrepreneurship 3 Credits	Social entrepreneurship exposes students to the power of solving social problems through market-based solutions. Entrepreneurs, in general, create opportunities through resource integration. Therefore, social entrepreneurs
MGMT 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MGMT 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MGMT 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MGMT 400	Organization Development 3 Credits	A study of organizational change and methodologies related with change and improvement. Examination of planned change on processes, strategies, people and culture in organizations.
MGMT 401	Contemporary Issues in Management 3 Credits	Advanced treatment of topics of current managerial significance. Issues examined will differ by instructor, section, and semester. Consult departmental office.
MGMT 409	Project Management for Non-business Majors 3 Credits	Project management for non-business majors covers the technical and people skills related to project management within a variety of organizational structures. Students learn the tools and concepts needed to successfully b
MGMT 410	Project Management 3 Credits	MGMT 410 Project Management (3) Project Management has been labeled by Fortune magazine as the number one career choice for the coming decade. Increasingly, organizations are adopting project management technic
MGMT 415	Project Portfolio Management and Organizations 3 Credits	An advanced course in project management focusing on portfolio planning and control within the context of specific organizational challenges. MGMT 415 Project Portfolio Management and Organizations (3) Project Portfoli
MGMT 418	Project Planning and Resource Management 3 Credits	Advanced course in project management focusing on a more in-depth approach to project planning and scheduling and resource management. MGMT 418 Project Planning and Resource Management (3) Project Planning ar
MGMT 420	Negotiation and Conflict Management 3 Credits	An exploration of the sources of interpersonal conflict and strategies of resolution in the managerial context.
MGMT 424	Interpersonal Relationships in Organizations 3 Credits	Developing individual skills in interpersonal and group settings and experience-based and conceptual training in relating effectively to other people.
MGMT 425	New Venture Creation 3 Credits	Via problem-based learning, students define new business ventures to meet current market needs, develop business models, and present to various stakeholders. The goal of New Venture Creation is to better prepare underg
MGMT 426	Invention Commercialization 3 Credits	Working with Penn State inventions selected by the Intellectual Property Office, student teams define an optimum commercialization path each technology. ENGR 426ENGR (MGMT/IST/ENTR) 426 Invention Commercializati
MGMT 427	Managing an Entrepreneurial Start-Up Company 3 Credits	Exploration of the tensions and experiences of starting and growing a new company. MGMT 427 Managing an Entrepreneurial Start-Up Company (3)Start-up companies have a high failure rate. Acquiring and balancing limite
MGMT 427W	Managing an Entrepreneurial Start-up 3 Credits	Start-up companies have a high failure rate. Acquiring and balancing limited resources, changing direction quickly, building a coherent team, developing an organization's culture from scratch, managing intellectual property, a
MGMT 430	Project Risk Management 3 Credits	Risk management is indispensable for effective project management. The course provides students with proven theories, tools, and best practices in risk management in order to manage a project to its success. From the co
MGMT 431	Entrepreneurship and Small Business Management 3 Credits	Entrepreneurship, new ventures, and management of small firms.
MGMT 433	Leadership and Team Building 3 Credits	Team-based learning approach to developing conceptual knowledge, skills sets, and personal competencies needed for leading and managing organizations. MGMT 433 Leadership and Team Building (3)To lead effectively a
MGMT 440	Compensation and Benefits 3 Credits	Students will explore the link between company strategy and compensation practices to understand the core policies necessary to develop effective compensation systems. These core policies include internal alignment, ext
MGMT 441	Organizational Staffing and Development 3 Credits	This course focuses on the skills and methods managers need to manage staffing and development activities in organizations. MGMT 441 HRM Professional Seminar (Part 1): Staffing and Development (3) The purpose of thi
MGMT 443	Performance Management 3 Credits	This course focuses on skills and methods managers need to enhance the contribution of employees to organizational performance and effectiveness. MGMT 443 HRM Professional Seminar Part Two: Performance Manager
MGMT 445	Managing a Diverse Workforce 3 Credits	This course focuses on developing knowledge and skills for managing differences within and among organizations. It provides an in-depth look at the sources of diversity-related conflicts in organizations, constructive approa
MGMT 450	Labor Management Relations 3 Credits	Study of the key concepts and processes involved in current American labor/management relations.
MGMT 451	Business, Ethics, and Society 3 Credits	Advanced examination of social, ethical, legal, and economic responsibilities of those who must make and execute challenging business decisions and manage others who do. The course focuses on the knowledge, skills, ar
MGMT 451W	Business, Ethics, and Society 3 Credits	Advanced examination of social, ethical, legal, economic, equity, environmental, public policy, and political influences on managerial DECISIONS AND STRATEGIES. MGMT 451W Business, Ethics, and Society (3) Focuses o
MGMT 453	Creativity and Innovation 3 Credits	Analysis of the process of innovation in organzations and of how creativity and other variables influence the process. MGMT 453 Creativity and Innovation (3) Creativity and Innovation analyzes the process of innovation in m
MGMT 457W	Strategic Management of Innovation and Technologies 3 Credits	New technologies are turned into innovations and create value for consumers only when they are successfully commercialized. Brilliant technologies can sit for years or even decades in the ivory tower. A successful commerc
MGMT 461	International Management 3 Credits	Examines issues of nations and cultures including motivation, communication, negotiation, leadership, ethics and social responsibility, and women in management.
MGMT 466	Organizational Learning and Knowledge Management 3 Credits	Examination of the social processes through which organizations continuously develop, acquire, interpret, and apply information and knowledge for performance enhancement and continuous improvement. MGMT 466 Orga
MGMT 471	Strategic Management 3 Credits	Issues that influence the competitive performance of the firm are identified and examined. MGMT 471 Strategic Management (3)This course focuses on the management of the firm using a strategic perspective. The strategi
MGMT 471W	Strategic Management and Business Policy 3 Credits	Study of strategic management and business policy formulation and implementation processes.
MGMT 475W	Strategic Product Development 3 Credits	Study of an organization, industry, and evaluation of the introduction to a new product. Preparation of proposal for industry product. MGMT 475W Strategic Product Development (3)This course is the first of a two course se
MGMT 476	Product Realization Capstone 3 Credits	Study of an organization, industry, and evaluation of the introduction of a new product. Preparation of proposal for industry product. MGMT 476 Product Realization Capstone (3)This course is the second of a two course se
MGMT 480	Business Transformation Consulting 3 Credits	This course provides key issues, concepts, and methodologies associated with business transformation and management consulting. Students will explore the professional services industry, industry best practices, and a va
MGMT 481	Global Strategic Management 3 Credits	With increasing competition around the globe, companies today confront an increasing array of choices regarding geographic markets, locations for key activities, ways of organizing businesses, operations, and processes fo
MGMT 483	Compliance and Fairness in Organizations 3 Credits	Compliance with employment laws with respect to managing human resources and fair treatment in employer-employee relationships. MGMT 483 Compliance and Fairness in Organizations (3) This course is intended for unc
MGMT 485	Entrepreneurial Opportunity Creation 3 Credits	Entrepreneurial Opportunity Creation is a process for co-creating ideas, markets and products by testing value propositions in actual market conditions. Opportunity co-creation prepares entrepreneurs to manage under conc
MGMT 486	Entrepreneurial Investment and Resource Acquisition 3 Credits	As resource integrator's, entrepreneurs must first understand what resources are needed to create a new venture (through Entrepreneurial Opportunity Creation) and then solicit and organize internal and external resources (a
MGMT 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MGMT 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MGMT 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MGMT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MGMT 496B	**SPECIAL TOPICS** 1-6 Credits	No description
MGMT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MGMT 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MIS 103	Microcomputer Applications in Business 3 Credits	Introduction to current business uses of the microcomputer, including spreadsheets, database management, word processing, and decision-making models.
MIS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
MIS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MIS 204	Introduction to Management Information Systems 3 Credits	Introduction to Management Information Systems provides an overview of the role of information systems in business process design, the current technologies used for obtaining, storing, securing, and communicating inform
MIS 204H	Honors Introduction to Management Information Systems 3 Credits	Introduction to the use of information systems in business organizations. MIS 204H Introduction to Management Information Systems Honors (3)This honors section of MIS 204, will provide enhanced, in depth learning for Sc
MIS 250	Introduction to Problem Solving with Spreadsheet Analysis and Information Systems 3 Credits	Introduction to Problem Solving with Spreadsheet Analysis and Information Systems Management introduces students to the use of information technologies for business problem solving and decision-making. This course e
MIS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MIS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MIS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

MIS 301	Business Analytics 3 Credits	MIS 301 investigates use of databases, basic data mining tools, social networking software, and advanced level of spreadsheet management for analysis of large amounts of data. Learning methods emphasize active learnin
MIS 307	Object-Oriented Programming and Application Development 3 Credits	MIS 307 focuses on using object-oriented programming to develop a broader understanding of logical structures, algorithms, arithmetic facilities, and data structures to develop software that can be purposefully used to infor
MIS 315	Python Programming 3 Credits	Students will learn how to program with Python, which is an interpreted, object-oriented, high-level programming language with dynamic semantics. Students will demonstrate how to easily use this for small, large, online and
MIS 336	Database Management Systems 3 Credits	Theory and utilization of database management systems in organizations, including data modeling and applications development.
MIS 344	Introduction to Cybersecurity 3 Credits	MIS 344 is an introductory course designed to provide students the concepts of cybersecurity along with a deeper understanding of current information and the need for system protection. This course builds a foundation for
MIS 345	Introduction to Data Analytics 3 Credits	An introduction to data analytics including data preparation, data visualization, dimension reduction, modeling techniques, and applications in different domain areas.
MIS 354	Computer Networking for Cybersecurity 3 Credits	MIS 354 offers an introduction to the fundamentals of computer networking with a focus on applications in cybersecurity, tailored for business students. Inspired by the CompTIA Network+ certification, this course simplifies
MIS 387	Website Design and Administration 3 Credits	Applied, hands-on, interdisciplinary website design/administration course. Acquired concepts, techniques and tools are exercised in individual and team projects. MIS 387 Website Design and Administration (3)This course is
MIS 390	Foundations of Information Systems 3 Credits	MIS 390 examines concepts of IS (including hardware, software, and data storage and acquisition) and the support that IS provides for transactional, decisional, and collaborative business processes. Students will be able to
MIS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MIS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MIS 404	Introduction to ERP and Business Processes 3 Credits	A problem-based, interdisciplinary course on Enterprise Resource Planning (ERP) concepts and business processes. MIS 404 Introduction to ERP and Business Processes (3)Enterprise Resource Planning (ERP) a group of in
MIS 405	Supply Chain Information Systems with Oracle 3 Credits	Strategic design and implementation of Oracle supply chain management information systems in an ERP environment. MIS 405 Supply Chain Information Systems with Oracle (3) This course involves extensive discussion an
MIS 406	Customer Information Systems with Oracle 3 Credits	A technology-based exploration of the various Oracle Order Management and Customer Relationship Management tools. MIS 406 Customer Information Systems with Oracle (3) This course provides a detailed explanation o
MIS 407	Enterprise Integration with Oracle 3 Credits	This is a technology course focusing on software development in an Oracle eBusiness ERP Environment. MIS 407 Enterprise Integration with Oracle (3) The Oracle Enterprise Integration course will cover the primary function
MIS 413	User Interface Design 3 Credits	MIS 413 explores the concepts of user interface design principles by examining user experience (UX) and usability. Topics include design considerations such as: psychological and interaction principles, requirements analysi
MIS 415	Social Media Management and Analytics 3 Credits	Students gain experience and in-depth analysis of social media management, digital marketing, SEO/M, and analytics of current digital business practices. MIS 415 Social Media Management and Analytics (3) With the rise o
MIS 417	Programming for Data Analytics 3 Credits	Students will learn how to interpret data with popular data science programming. Students will study inferential statistics to generate information about data. Students will mine data and understand the necessity of data clea
MIS 420	Business Process Management 3 Credits	Process modelling is a foundational skill required to be able to implement a complete business process management capability in an organization. MIS 420 examines approaches, design principles, and state-of-the-art theori
MIS 425	Managing Information Systems Projects 3 Credits	MIS 425 provides an understanding of the processes, methods, techniques, and tools that are used for managing information systems projects in organizations to ensure consistency with business strategies to achieve a con
MIS 430	Systems Analysis 3 Credits	Information analysis and the logical specification of the system.
MIS 431	Business Data Management 3 Credits	Management of data including large, complex sets to support business analytics, strategy, and operations. MIS 431 Business Data Management (3) Business Data Management will enable students to use various database o
MIS 432	Business Information System Analysis 3 Credits	The analysis of business information systems and the requirements specifications of redesigned systems. MIS 432 Business Information System Analysis (3) Business Information Systems Analysis introduces concepts unde
MIS 433	Rapid Application Development 3 Credits	This course provides students with a real world, hands on introduction to the current industry of Rapid Application Development (RAD) tools and techniques. RAD includes prototyping and end-user development in order to q
MIS 435	Systems Design and Implementation 4 Credits	MIS 435 Systems Design and Implementation (3)Current systems development methods involve a use-case based, and iterative and incremental approach. This is the approach generally used on object-oriented systems dev
MIS 441	Business Intelligence for Decision Making 3 Credits	Application of Information Technology based methods and tools to analyze business data and support decision making. MIS 441 Business Intelligence for Decision Making (3) Business intelligence encompasses the IT tools
MIS 445	Business Intelligence 4 Credits	Develops insights and skills related to Business Intelligence, Data Warehousing, Data Mining, Analytics, OLAP, and report generators. MIS 445 Management Reporting Systems (4) This course develops insights and skills req
MIS 446	Information Technology and Business Strategy 3 Credits	Strategic use and management of information technology in digital global economy. MIS 446 Information Technology and Business Strategy (3) This course introduces the basics on the interplay between information technol
MIS 447	Data Warehousing 3 Credits	This course focuses on fundamental principles and applications of data warehousing. Topics covered include data warehouse planning, design, and implementation. MIS 447 Data Warehousing (3) This course focuses on fur
MIS 448	Securing Information Systems 3 Credits	MIS 448 examines practices associated with assuring secure business operations in organizations. Assuring secure operations involves the creation, operation, defense, analysis, and testing of secure computer systems. Her
MIS 450	Information Systems Practicum 3 Credits	This course provides an intensive experience in creative problem solving and provides an opportunity for integration of knowledge from the core curriculum. This course also provides an applied synthesis of foundational cou
MIS 465	DataBase Management 3 Credits	Provides a comparison of techniques, methodology of systems, limitations, and applications of various data base management systems. MIS 465 Database Management (3), is a required course for information systems majo
MIS 466	Business Programming for the WEB 3 Credits	Advanced programming for WEB-based applications. MIS 466 Business Programming for the Web (3) The objective of this course is to teach students how to create and maintain business applications on the WEB. Students
MIS 479W	Enterprise Information Systems 3 Credits	Management and implementation of enterprise information systems for business integration and supply chain management. MIS 479W Enterprise Information Systems (3) This course examines enterprise-wide information s
MIS 481	Business Analytics 3 Credits	Advances in computational technologies, coupled with the massive amounts of data available through business activities as well as the surrounding ecosystems, have created an amazing potential for managers to leverage a
MIS 489	Seminar in Information Systems 3 Credits	Covers new trends and concepts in information/processing technology and their applications and impact on computer information systems. MIS 489 Seminar in Information Systems (3) INFSY 489, Seminar in Information Sy
MIS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MIS 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MIS 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MIS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MIS 496A	**SPECIAL TOPICS** 1-6 Credits	No description
MIS 496B	**SPECIAL TOPICS** 1-6 Credits	No description
MIS 496C	**SPECIAL TOPICS** 1-6 Credits	No description
MIS 496D	**SPECIAL TOPICS** 1-6 Credits	No description
MIS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MIS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MKTG 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MKTG 220	Introduction to Selling Techniques 3 Credits	Principles underlying the sales process and practical application of these principles to selling situations. Studies role of selling in total marketing process.
MKTG 221W	Contemporary American Marketing 3 Credits	Social and economic aspects; movement of goods and services from producers to consumers; analysis of marketing functions, systems, and institutions. May not be used to satisfy Penn State Business baccalaureate degre
MKTG 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MKTG 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MKTG 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MKTG 301	Principles of Marketing 3 Credits	Principles of Marketing covers terminology and important concepts related to marketing in the business environment. Domestic and international environments that impact marketing are included, with particular emphasis on
MKTG 301H	Principles of Marketing (Honors) 3 Credits	Marketing begins and ends with the customer, from determining wants and needs to providing customer satisfaction. This course will emphasize fundamental marketing concepts, such as segmentation, targeting, and positio
MKTG 301W	Principles of Marketing 3 Credits	Principles of Marketing is a three credit course offered each semester across Penn State and covers terminology and important concepts related to marketing in the business environment. Domestic and international environm
MKTG 302	Marketing Techniques for Electronic Commerce 3 Credits	Explores methods to implement/adapt marketing methods to the Internet; builds upon introductory marketing classes to examine what does/doesn't work. MKTG 302 Marketing Techniques for Electronic Commerce (3) This
MKTG 310	Public Relations and Marketing 3 Credits	Examination of the role of public relations in a company's efforts to manufacture and market its products and services.
MKTG 327	Retailing 3 Credits	Management of marketing institutions in distribution channels from producers to consumers. Emphasis on retail institutions: location, personnel, merchandising, control, promotion.

MKTG 330	Consumer Behavior 3 Credits	Application of behavioral science concepts to the understanding of buyer behavior as a basis for marketing management decision making.
MKTG 342	Marketing Research 3 Credits	Research approaches, methods, and applications studied as a formal approach to problem solving for marketing decisions.
MKTG 343	Introduction to Marketing Analytics 3 Credits	Marketing Analytics helps students enhance skills and knowledge required for data-driven marketing decision process. The course introduces students to analytics for pricing, forecasting, different estimation techniques, calc
MKTG 395	Sales Internship 3 Credits	A sales internship is a structured work experience conducted by an organization in cooperation with a Penn State college or campus. It is a learning experience that encompasses a set of specified tasks related to sales and
MKTG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MKTG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MKTG 410	Personal Selling 3 Credits	Principles underlying the selling process and practical application of these principles to selling situations.
MKTG 422	Advertising and Sales Promotion Management 3 Credits	Perspectives and models of the key decisions involved in managing advertising and sales promotion campaigns.
MKTG 426	Business Marketing 3 Credits	Developing marketing strategies and programs. The course emphasizes the special nature of the business and organizational markets.
MKTG 428	Advanced Sales Management 3 Credits	Approaches to planning, organizing, staffing, training, directing, and controlling the sales force in support of marketing objectives.
MKTG 437	Advanced Retailing and Merchandise Management 3 Credits	Analyzing planning and controlling the retail merchandising effort, including procurement, resource selection, vendor relations, product presentation, inventory control.
MKTG 440	Services Marketing 3 Credits	Marketing theory and methods applied to profit and nonprofit service industries such as health care, finance, transportation, tourism, arts and consulting.
MKTG 441	Sustainability in Marketing Strategy 3 Credits	This course examines sustainability in marketing strategy, including real- world applications, green solutions, and using marketing principles to solve social issues. MKTG 441 Sustainability in Marketing Strategy (3) This cour
MKTG 442	Sustainable Behavior of Consumers, Firms, and Societies 3 Credits	Sustainability is a broad domain concerning the extent to which environmental, economic, and social practices are viable for current and future generations. Consumer awareness of sustainability issues has evolved from an
MKTG 443	Sports Marketing 3 Credits	This course will focus on how companies develop, execute and measure marketing strategies and tactics to use sports teams, familities, leagues and other organizations to market their products and services domestically an
MKTG 444	Buyer Behavior and Applied Research 3 Credits	Buyer Behavior occupies the center of the customer-company interface. It informs the design of marketing strategy and planning by providing insights about the evolving consumer environment; consumer information proces
MKTG 445	Global Marketing 3 Credits	Role of international marketing in the global environment; political, economic, geographic, historical, cultural conditions; developing and implementing international marketing strategies. MKTG (I B) 445 Global Marketing (3) (
MKTG 449	Sports Business Market Strategy 3 Credits	This course provides an overview of the business of sports, with an emphasis on marketing and market strategy. Particular topics include business strategy and competitive forces in sports, fan psychology, fan behavior, segr
MKTG 450W	Marketing Strategy 3 Credits	Market-oriented problems of the firm; identification and selection of market opportunities; formulation of competitive strategies; marketing policies and programs.
MKTG 472	Strategic Brand Management 3 Credits	Brands are a potentially valuable asset to firms in Business-to-Business (B2B) and Business-to-Consumer (B2C) markets. Strong brands influence purchase and consumption by communicating value and providing differentia
MKTG 473	Digital Marketing 3 Credits	In recent years, marketing has dramatically shifted from traditional (e.g., commercial, print advertising) to digital using technologies such as the Internet, social media, augmented reality, mobile, Internet of Things, and wearab
MKTG 474	Marketing Analytics 3 Credits	In rapidly changing markets characterized by ever more demanding customers served by global competitors, intuitive decision making, even when honed by years of experience, is unlikely to generate superior results. Instea
MKTG 475	Innovation and Product Management 3 Credits	This course is an application-oriented interdisciplinary course on new product development concepts, and innovation management. MKTG 475 Innovation and Product Management (3) This course is designed to provide stu
MKTG 476	Sales Management 3 Credits	Application of modern management principles to field sales force planning, organization, and administration; selection, training, and compensation plans.
MKTG 478	Services Marketing Management 3 Credits	Conceptual understanding of services and the analytical tools that are used in solving strategic services marketing problems.
MKTG 480	Intermediate Social Media Marketing 3 Credits	Social Media Marketing tools, techniques, and strategies to build brands and customers. MKTG 480 Intermediate Social Media Marketing (3) In today's business world, marketers must become more creative in the ways in w
MKTG 485	Business-to-Business Marketing 3 Credits	Application of marketing principles to commercial enterprises, industrial firms, government, and other non-profit institutions.
MKTG 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MKTG 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MKTG 495	Internship 1-18 Credits/Maximum of 18	Supervised off campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MKTG 495A	Penn State Prime Practicum: Brand Management and Campaign Strategy 3 Credits	Penn State Prime is designed to give students hands-on, practical experience between brand ("client side") and ad agency ("agency side") while taking on a real consumer marketing challenge. Teams live out the journey fron
MKTG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MKTG 496A	**SPECIAL TOPICS** 1-6 Credits	No description
MKTG 496B	**SPECIAL TOPICS** 1-6 Credits/Maximum of 6	No description
MKTG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MKTG 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MKTG 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MAET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MATSE 81	Materials in Today's World 3 Credits	A survey of the properties, manufacture, and uses of polymers, ceramics, and metals in today's world with emphasis on modern developments and new materials. This course presents the basic science and technology of m
MATSE 101	Energy and the Environment 3 Credits	Energy utilization and technological development, energy resources, conversion and consequences on the local and global environment, and future energy alternatives. EGEE (MATSC) 101 Energy and the Environment (3) (GN
MATSE 101A	Energy and the Environment 3 Credits	Energy utilization and technological development, energy resources, conversion and consequences on the local and global environment, and future energy alternatives. EGEE (MATSC) 101A Energy and the Environment (3) (
MATSE 112	Applied Materials Chemistry for Engineers 3 Credits	The goal of this course is to instruct students on how to apply the basic tenants of chemistry towards materials used for a variety of engineering applications as well as to provide an introduction to many of the core concepts
MATSE 201	Introduction to Materials Science 3 Credits	Concepts of relationships between structure and thermal, optical, magnetic, electrical, and mechanical properties of metals, ceramics, glasses, and polymers.
MATSE 201H	Introduction to Materials Science 3 Credits	Concepts of relationships between structure and thermal, optical, magnetic, electrical, and mechanical properties of metals, ceramics, glasses, and polymers.
MATSE 202	Introduction to Polymer Materials 3 Credits	The materials science of organic or soft materials with an emphasis on synthetic and natural polymer. MATSE 202 Introduction to Polymer Materials (3) Materials made from many types of natural organic materials, (cotton, w
MATSE 203	Technical Communications 3 Credits	This course is a 3 credit general education course in technical writing, for undergraduates majoring in Materials Science and Engineering. In it, students will learn how to develop a variety of documents which they will be expe
MATSE 219	Introduction to Materials Informatics 3 Credits	The proposed course has 5 modules. In the first module, the concepts of materials informatics are presented through spreadsheet software (e.g., Microsoft Excel) to enable the students practice with the content in a familiar
MATSE 259	Properties and Processing of Engineering Materials 3 Credits	Relationship of structure and processing variables to the properties and service behavior of metals, polymers, and ceramics.
MATSE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATSE 400	Crystal Chemistry 3 Credits	Principles of crystal chemistry applied to structures, structural defects and properties of organic, inorganic, intermetallic, and metallic crystals.
MATSE 401	Thermodynamics of Materials 3 Credits	The course starts with the first law of thermodynamics and its applications to the calculations of heat involved in various materials processes such as chemical reactions and phase transformations. Second law of thermodyna
MATSE 402	Materials Process Kinetics 3 Credits	A treatment of process kinetics including chemical reaction kinetics and momentum, energy and mass transport.

MATSE 403	Biomedical Materials 3 Credits	Describe properties of materials and composites and their in vivo interactions. BME 443 (MATSE 403) Biomedical Materials (3) Metals, polymers, and ceramics, and their composites, which are capable of emulating the funct
MATSE 404	Surfaces and the Biological Response to Materials 3 Credits	Focus is on special properties of surface as an important causative and mediating agent in the biological response to materials.
MATSE 409	Nuclear Materials 3 Credits	Nuclear reactor materials: relationship between changes in material properties and microstructural evolution of nuclear cladding and fuel under irradiation. NUC E (MATSE) 409 Nuclear Materials (3) NUC E/MATSE 409 provid
MATSE 410	Phase Relations in Materials Systems 3 Credits	Phase rule; construction and interpretations of equilibrium diagrams; importance of nonequilibrium in materials. MATSE 410 Phase Relations in Materials Systems (3) This course integrates three core components of material
MATSE 411	Processing of Ceramics 3 Credits	Principles of ceramic processing, including powder preparation and characterization, forming operations, and the basic phenomena underlying these operations. MATSE 411 Processing of Ceramics (3) This course covers th
MATSE 412	Thermal Properties of Materials 3 Credits	Generation of high temperatures, measurement of temperature, heat transfer and furnace design, thermal stability of ceramic materials, applied thermodynamics. MATSE 412 Thermal Properties of Materials (3) The fundamen
MATSE 413	Solid-State Materials 3 Credits	The main course objective is to provide sufficient background for the understanding of fundamental phenomena in solid state materials. Mathematical description of periodic arrays and the concept of reciprocal space are int
MATSE 415	Introduction to Glass Science 3 Credits	Composition, melting, fabrication, properties, and uses of glass; combinations of glass with metals and other materials. MATSE 415MATSE 415 Introduction to Glass Science (3) This course aims to explain the unique charact
MATSE 417	Electrical and Magnetic Properties 3 Credits	Electrical conductivity, dielectric properties, piezoelectric and ferroelectric phenomena; magnetic properties of ceramics. ESC 417 / MATSE 417 Electrical and Magnetic Properties (3) is designed to provide students with a fur
MATSE 419	Computational Materials Science and Engineering 3 Credits	Introduction to computational material science and engineering. Overview of the computational methods for materials, from atomistic to the continuum scale. MATSE 419 Computational Materials Science and Engineering (3)
MATSE 421	Corrosion Engineering 3 Credits/Maximum of 3	Industrial forms of corrosion and preventive methods, and their description in terms of basic thermodynamic and kinetic considerations. MATSE 421 Corrosion Engineering (3) This 3-credit course is an introduction to the corr
MATSE 422	Thermochemical Processing 3 Credits	Physico-chemical aspects of high temperature extraction and processing of metals and alloys. Design and evaluation of processes and process options. MATSE 422 MATSE 422 Thermochemical Processing (3) An important
MATSE 425	Processing of Metals 3 Credits	Modern methods of shaping metals in liquid and solid states: casting, joining, powder and deformation processing. Design of new technology. MATSE 425 Processing of Metals (3) This course focuses on how metals and allo
MATSE 426	Aqueous Processing 3 Credits	A study of the chemical and engineering principles pertinent to metal processing in aqueous systems: hydrometallurgical extraction, plating, materials preparation. MATSE (MN PR) 426 Aqueous Processing (3) This 3-credit c
MATSE 427	Microstructure Design of Structural Materials 3 Credits	The focus of this course is on understanding the microstructure development and design of structural ferrous metals. The course will begin with understanding the basic physical metallurgy concepts of ferrous metals and ap
MATSE 429	Non-Ferrous Structural Metals 3 Credits	The focus of this course is to understand the phases, microstructures, and mechanical properties of non ferrous structural metals; specifically the alloys of aluminum, titanium, nickel, and copper. The alloying principles, phas
MATSE 430	Materials Characterization 3 Credits	Elements of crystallography and the characterization of crystalline and non- crystalline materials using x-ray diffraction, electron microscopic, and other instrumental techniques. MATSE 430 Materials Characterization (3) This
MATSE 435	Optical Properties of Materials 3 Credits	Electromagnetic spectrum, interaction of light with materials, color, thin film optical coatings, electro-, integrated and nonlinear optics.
MATSE 436	Mechanical Properties of Materials 3 Credits	Fundamental relationships between structure and mechanical behavior of materials. MATSE 436 Mechanical Properties of Materials (3) The topics covered in this course are essential to students in the Materials Science and
MATSE 440	Nondestructive Evaluation of Flaws 3 Credits	Methods and limitations of nondestructive evaluation of mechanical flaws; optical, acoustical, electromagnetic, x-ray, radiography, thermography, and dye techniques.
MATSE 441	Polymeric Materials I 3 Credits	This 3-credit course focuses on about 50 commercially most important polymers together with the discussion of synthesis routes, industrial production processes, processing methods, physical and chemical properties, and
MATSE 445	Thermodynamics, Microstructure, and Characterization of Polymers 3 Credits	The properties of individual polymer chains will be studied and characterized, including theoretical and experimental techniques pertaining to the characterization of polymeric microstructure. This course develops fundament
MATSE 446	Mechanical and Electrical Properties of Polymers and Composities 3 Credits	This course is an introduction to the mechanical and electrical properties of polymers and polymer-based composites: The main focus is on the importance of molecular structure, rubber elasticity, mechanisms of yielding, vis
MATSE 447	Rheology and Processing of Polymers 3 Credits	Fluid Mechanics: Stress, strain, tensors, viscosity, modulus, conservation of mass, momentum transfer, Navier-Stokes equations, Reynolds number, creeping flow, Poiseuille flow, Couette flow, dimensional analysis and scalin
MATSE 449	Fundamentals of Composite Materials Science and Engineering 3 Credits	MATSE449 Fundamentals of Composite Materials Science and Engineering covers the fundamental science and engineering of multicomponent materials, with special emphasis on Polymer Matrix Composites. Topics includ
MATSE 450	Synthesis and Processing of Electronic and Photonic Materials 3 Credits	The materials science of applying thin film coatings, etching, and bulk crystal growth; includes materials transport, accumulation, epitaxy, and defects.
MATSE 455	Properties and Characterization of Electronic and Photonic Materials 3 Credits	Materials characterization in general; electrical properties of crystals, contacts, films; optical properties of single phase materials, waveguide, and multilayer stacks.
MATSE 460	Introductory Laboratory in Materials 1 Credits	An introduction to comparative physical properties and characteristics of various materials including mechanical, electrical thermal, and structure/ morphology. MATSE 460 Introductory Laboratory in Materials (1) This is a lab
MATSE 462	General Properties Laboratory in Materials 1 Credits	An introduction to comparative physical properties of various materials including mechanical, thermal electrical properties and the measurement of said properties. MATSE 462 General Properties Laboratory in Materials (1) T
MATSE 463	Characterization and Processing of Electronic and Photonic Materials Laboratory 1 Credits/Maximum of 1	Provides experience with key processing methods for EPM materials and advanced characterization methods for EPM materials and simple device structures.
MATSE 468	Ceramics Laboratory III 1 Credits	Cermaic processing and powder characteristics. MATSE 468 Ceramics Laboratory III (1)This course will demonstrate to students the experimental techniques by which the key powder characteristics and powder processes
MATSE 471	Metallurgy Processing Laboratory 1 Credits	A laboratory integrating experimental aspects of the material contained in MATSE 425, casting, solidification micro-structures heat treating, welding, etc. MATSE 471 Metallurgy Laboratory I (1) This course is largely a metals p
MATSE 473	Polymeric Materials Laboratory 1 Credits	Principles and practices of polymerization, including condensation, free radical (bulk, solution, suspension, emulsion), ionic, and Zeigler-Natta procedures. MATSE 473 Polymeric Materials Laboratory--Synthesis (1) This labor
MATSE 475	Particulate Materials Processing 3 Credits	Fundamentals of processing particulate materials including production, characterization, handling, compaction, and sintering of metal, carbide, intermetallic, and composite powders.
MATSE 483	Simulation and Design of Nanostructures 3 Credits	Introduction to computer simulation techniques and their applications at the physical/life sciences interface. E SC (MATSE) 483 Simulation and Design of Nanostructures (3) Students will learn the simulation techniques and t
MATSE 492W	Materials Engineering Methodology and Design 3 Credits	Designed to familiarize students with the literature and technology developments in the use of, and design with, materials in industrial applications. MATSE 492 Materials Engineering Methodology and Design (3) The objectiv
MATSE 493W	Materials Science and Engineering Multidisciplinary Capstone Design Project 3 Credits	This course focuses on multidisciplinary industry-sponsored and community service-based design projects offered in conjunction with the College of Engineering's Learning Factory. MATSE 493W Materials Science and Eng
MATSE 494M	Research and Design Senior Project 1-3 Credits/Maximum of 3	Continuation of a research problem in materials culminating in a bound thesis describing the work.
MATSE 494W	Research and Design Senior Project 1-3 Credits/Maximum of 3	MATSE 494W Research and Design Senior Project (2) This course continues the senior thesis research topic addressed by the student in MATSE 493W. This is a capstone research/design project which integrates: a) backgro
MATSE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MATSE 496H	Independent Studies 1-3 Credits/Maximum of 3	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MATSE 497	Special Topics 1-3 Credits/Maximum of 3	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATSE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 3	Basic Skills 3 Credits	Natural numbers; integers; rational numbers; decimals; ratio, proportion; percent; graphs; applications. Students who have passed MATH 001 may not schedule this course for credit. This course may not be used to satisfy t
MATH 4	Intermediate Algebra 3 Credits	Algebraic expressions; linear, absolute value equations and inequalities; lines; systems of linear equations; integral exponents; polynomials; factoring. This course may not be used to satisfy the basic minimum requirements f
MATH 10	Preparation Skills for Success in Mathematics 1 Credits/Maximum of 4	A foundation course that emphasizes study skills and reviews basic mathematical principles.
MATH 21	College Algebra with Analytic Geometry with Applications I 3 Credits	This course satisfies the General Education Qualification. Topics covered include visualizing and graphing data; evaluating the average rate of change; solving linear equations and inequalities; solving linear absolute value eq
MATH 22	College Algebra With Analytic Geometry and Applications II 3 Credits	This course covers topics that include functions and their representations; distinguishing between types of functions; evaluating the average rate of change; factoring polynomials of general degree; solving polynomial inequa
MATH 26	Plane Trigonometry and Applications of Trigonometry 3 Credits	This course satisfies the General Education Qualification. Topics covered include angles and their measures; right triangle trigonometry; all six trigonometric functions and their representations; angle addition/subtraction and
MATH 30	Problem Solving 3 Credits	Concepts in problem solving; reducing new problems to old ones; techniques for attacking problems; building mathematical models.
MATH 31	Mathematics of Music 3 Credits	This course is intended to explore the connections between mathematics and music. Topics include elementary combinatorics, trigonometry, group theory, probability and game theory, and how these mathematical principles
MATH 32	Math for Allied Health Professions 3 Credits	This course is intended to build the specific quantitative reasoning skills needed by workers in Allied Health Professions, such as nurses or therapists. Students will become fluent in proportional reasoning in a variety of conte
MATH 33	Mathematics for Sustainability 3 Credits	Mathematical analysis of sustainability: measurement, flows, networks, rates of change, uncertainty and risk, applying analysis in decision making; using quantitative evidence to support arguments; examples. MATH 033 Mat
MATH 34	The Mathematics of Money 3 Credits	This course will provide students with the mathematical background and quantitative skills needed to make sound financial decisions. This course introduces personal finance topics including simple interest, simple discount,
MATH 35	General View of Mathematics 3 Credits	This course presents a general view of a number of mathematical topics to a non-technical audience, often relating the mathematical topics to a historical context, and providing students with an opportunity to engage with th

MATH 36	Insights Into Mathematics 3 Credits	This course will provide students the mathematical background and quantitative skills in various mathematical applications in such areas which are related to voting, fair divisions which includes apportionment methods, and
MATH 37	Finite Mathematics 3 Credits	Finite math includes topics of mathematics which deal with finite sets. Sets and formal logic are modern concepts created by mathematicians in the mid 19th and early 20th centuries to provide a foundation for mathematical
MATH 38	Elementary Linear Algebra 3 Credits	Many problems we have to solve in day-to-day practice require the simultaneous determination of several different but interrelated unknowns. Although many problems of this form have been studied throughout the long hist
MATH 41	Trigonometry and Analytic Geometry 4 Credits	Topics covered include functions and their representations; distinguishing between types of functions; evaluating the average rate of change; graphs and rate of change; end behavior of graphs; modeling with polynomial and
MATH 81	Technical Mathematics I 3 Credits	Math 81 is the first course in an applied mathematics sequence. The course includes a review of algebra, study of functions, study of systems of linear equations, and an introduction to trigonometry. It addresses the needs o
MATH 82	Technical Mathematics II 3 Credits	Exponents, radicals, complex numbers, theory of equations, inequalities, half angle and double angle formulas, inverse trigonometric functions, exponential, logarithm, conic sections.
MATH 83	Technical Calculus 4 Credits	Math 83 is the third course in an applied mathematics sequence. Math 81; Math 82; Math 83; Math 210; Math 211. It addresses the needs of engineering technology majors, and emphasizes technology and applications. Mat
MATH 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 102	Bridge to Calculus 3-4 Credits	This summer course aims to provide incoming students with the tools needed to be successful wherever they place in the calculus sequence. Specific content is tailored to individual students, based on their existing skill set
MATH 110	Techniques of Calculus I 4 Credits	Business Calculus is a critical component in the education of any business, financial, or economics professional who uses quantitative analysis. This course introduces and develops the mathematical skills required for analyz
MATH 111	Techniques of Calculus II 2 Credits	MATH 111 is the second course in a sequence of calculus content tailored primarily to first year business students with an emphasis on economics, business, social science, and/or ecology applications. Although it provides
MATH 140	Calculus With Analytic Geometry I 4 Credits	Calculus is an important building block in the education of any professional who uses quantitative analysis. This course introduces and develops the mathematical skills required for analyzing change and creating mathematic
MATH 140B	Calculus and Biology I 4 Credits	Calculus is an important building block in the education of any professional who uses quantitative analysis. This course introduces and develops the mathematical skills required for analyzing change and creating mathematic
MATH 140E	Calculus with Engineering Applications I 4 Credits	Calculus is an important building block in the education of any professional who uses quantitative analysis. This course introduces and develops the mathematical skills required for analyzing change and creating mathematic
MATH 140G	Calculus with Earth and Mineral Sciences Applications I 4 Credits	This course is the first in a sequence of three calculus courses designed for students in the earth and mineral sciences and related fields. Topics include limits of functions, continuity; the definition of the derivative, various rul
MATH 140H	Honors Calculus with Analytic Geometry I 4 Credits	Calculus is an important building block in the education of any professional who uses quantitative analysis. This course introduces and develops the mathematical skills required for analyzing change and creating mathematic
MATH 141	Calculus with Analytic Geometry II 4 Credits	MATH 141 is the second course in a two- or three-course calculus sequence for students in science, engineering and related fields. Calculus is an important building block in the education of any professional who uses quant
MATH 141B	Calculus and Biology II 4 Credits	Techniques of integration and applications to biology; elementary matrix theory, limits of matrices, Markov chains, applications to biology and the natural sciences; elementary and separable differential equations, linear rst-or
MATH 141E	Calculus with Engineering Applications II 4 Credits	MATH 141E is the second course in a two- or three-course calculus sequence for students in science, engineering and related fields. Calculus is an important building block in the education of any professional who uses qua
MATH 141G	Calculus with Earth and Mineral Sciences Applications II 4 Credits	This course is the second in a sequence of three calculus courses designed for students in the earth and mineral sciences and related fields. Topics include inverse functions of exponential, logarithmic, and trigonometric fun
MATH 141H	Honors Calculus with Analytic Geometry II 4 Credits	MATH 141 is the second course in a two- or three-course calculus sequence for students in science, engineering and related fields. Calculus is an important building block in the education of any professional who uses quant
MATH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MATH 200	Problem Solving in Mathematics 3 Credits	Fundamental concepts of arithmetic and geometry, including problem solving, number systems, and elementary number theory. For elementary and special education teacher certification candidates only. A student who has
MATH 201	Problem Solving in Mathematics II 3 Credits	This course studies the foundations of elementary school mathematics with an emphasis on problem solving. MATH 201 Problem Solving in Mathematics II (3) (GQ) Problem Solving in Mathematics II studies the foundations
MATH 210	Calculus with Engineering Technology Applications 3 Credits	Topics in calculus with an emphasis on applications in engineering technology. MATH 210 Calculus with Engineering Technology Applications (3) is a three-credit course to be taken either after the MATH 81, MATH 82, MATH
MATH 211	Intermediate Calculus and Differential Equations with Applications 3 Credits	Topics in ordinary differential equations, linear algebra, complex numbers, Eigenvalue solutions and Laplace transform methods. MATH 211 Intermediate Calculus and Differential Equations with Applications (4) MATH 211 is
MATH 220	Matrices 2-3 Credits	Systems of linear equations; matrix algebra; eigenvalues and eigenvectors; linear systems of differential equations. MATH 220 Matrices (2-3) (GQ) (BA) This course meets the Bachelor of Arts degree requirements.Systems of
MATH 220H	Honors Matrices 2-3 Credits	Honors course in systems of linear equations; matrix algebra; eigenvalues and eigenvectors; linear systems of differential equations. MATH 220H Honors Matrices (2) (GQ)(BA) This course meets the Bachelor of Arts degree r
MATH 225	Mathematical Foundations for Machine Learning 4 Credits	This course introduces students to essential mathematical foundations required for further studies in machine learning. The course introduces students to linear algebra (inner product vector spaces, matrix-vector products, r
MATH 230	Calculus and Vector Analysis 4 Credits	Three-dimensional analytic geometry; vectors in space; partial differentiation; double and triple integrals; integral vector calculus. Students who have passed either Math 231 or MATH 232 may not schedule Math 230 or MAT
MATH 230H	Honors Calculus and Vector Analysis 4 Credits	Honors course in three-dimensional analytic geometry; vectors in space; partial differentiation; double and triple integrals; integral vector calculus. Students who have passed either MATH 231 or MATH 232 may not schedule
MATH 231	Calculus of Several Variables 2 Credits	Analytic geometry in space; partial differentiation and applications. Students who have passed MATH 230 or MATH 230H may not schedule this course.
MATH 231H	Honors Calculus of Several Variables 2 Credits	Honors course in analytic geometry in space; partial differentiation and applications. Students who have passed MATH 230 or MATH 230H may not schedule this course. MATH 231H Honors Calculus of Several Variables (2)
MATH 232	Integral Vector Calculus 2 Credits	Multidimensional analytic geometry, double and triple integrals; potential fields; flux; Green's, divergence and Stokes' theorems. Students who have passed MATH 230 may not schedule this course for credit.
MATH 240	Mathematical Methods for Biology and the Life Sciences 4 Credits	This course will cover systems of differential equations, multivariable calculus, and applications to biology and the life sciences. Students will learn about complex numbers, and their relation to oscillations. Analysis of biologi
MATH 250	Ordinary Differential Equations 3 Credits	First- and second-order equations; special functions; Laplace transform solutions; higher order equations. Students who have passed MATH 251 may not schedule this course for credit.
MATH 251	Ordinary and Partial Differential Equations 4 Credits	First- and second-order equations; special functions; Laplace transform solutions; higher order equations; Fourier series; partial differential equations.
MATH 251H	Honors Ordinary and Partial Differential Equations 4 Credits	Honors course in first- and second-order equations; special functions; Laplace transform solutions; higher order equations; Fourier series; partial differential equations. MATH 251H Honors Ordinary and Partial Differential Eq
MATH 252	Partial Differential Equations 1 Credits	Fourier series; partial differential equations. Students who have passed MATH 251 may not schedule this course for credit. This course serves as the continuation of MATH 250 (Ordinary Differential Equations) and provides ar
MATH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including nonthesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.
MATH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 310	Elementary Combinatorics 3 Credits	Fundamental techniques of enumeration and construction of combinatorial structures, permutations, recurrences, inclusion-exclusion, permanents, 0, 1- matrices, Latin squares, combinatorial designs.
MATH 310H	Honors Concepts of Combinatorics 3 Credits	Honors version of elementary and enumerative combinatorics.
MATH 311M	Honors Concepts of Discrete Mathematics 3 Credits	Basic methods of mathematical thinking and fundamental mathematical structures, primarily in the context of numbers, groups, and symmetries.
MATH 311W	Concepts of Discrete Mathematics 3-4 Credits	Introduction to mathematical proofs; elementary number theory and group theory. Students who have passed CMPSC 360 may not schedule this course for credit.
MATH 312	Concepts of Real Analysis 3 Credits	An introduction to rigorous analytic proofs involving properties of real numbers, continuity, differentiation, integration, and infinite sequences and series.
MATH 312H	Honors Concepts of Real Analysis 3 Credits	Basic methods of mathematical thinking and fundamental structures, primarily in the context of infinite sets, real numbers, and metric spaces.
MATH 313H	Concepts of Geometry 3 Credits	Development thorough understanding and technical mastery of foundations of modern geometry. MATH 313H Concepts of Geometry (3) The central aim of this course is to develop thorough understanding and technical ma
MATH 316	Upperclass Seminar: Careers, Graduate Study, and Opportunities in Mathematics 1 Credits	This course is designed to prepare sophomore, junior and senior mathematics majors to take advantage of opportunities provided by the mathematics department and university in selecting and pursuing a career path. Some
MATH 318	Elementary Probability 3 Credits	Combinatorial analysis, axioms of probability, conditional probability and independence, discrete and continuous random variables, expectation, limit theorems, additional topics. Students who have passed either MATH(STA

MATH 319	Elementary Mathematical Statistics 3 Credits	Statistical inference: principles and methods, estimation and testing hypotheses, regression and correlation analysis, analysis of variance, computer analysis. Students who have passed STAT (MATH) 415 may not schedule t
MATH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MATH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MATH 400	Teaching in Mathematics 1-2 Credits/Maximum of 6	Mathematics Learning Assistants will participate in the instruction of undergraduate mathematics courses. In MATH 400 Teaching in Mathematics (1-2), students will learn about and gain experience in leading and facilitating
MATH 401	Introduction to Analysis I 3 Credits	Review of calculus, properties of real numbers, infinite series, uniform convergence, power series. Students who have passed Math. 403 may not schedule this course.
MATH 403	Classical Analysis I 3 Credits	Topology of Rn, compactness, continuity of functions, uniform convergence, Arzela-Ascoli theorem in the plane, Stone-Wierstrass theorem.
MATH 403H	Honors Classical Analysis I 3 Credits	Development of a thorough understanding and technical mastery of foundations of classical analysis in the framework of metric spaces. MATH 403H Honors Classical Analysis I (3)The central aim of this course is to develop
MATH 404	Classical Analysis II 3 Credits	Differentiation of functions from Rn to Rm, implicit function theorem, Riemann integration, Fubini's theorem, Fourier analysis.
MATH 405	Advanced Calculus for Engineers and Scientists I 3 Credits	Vector calculus, linear algebra, ordinary and partial differential equations. Students who have passed MATH 411 or 412 may not take this course for credit.
MATH 406	Advanced Calculus for Engineers and Scientists II 3 Credits	Complex analytic functions, sequences and series, residues, Fourier and Laplace transforms. Students who have passed MATH 421 may not take this course for credit.
MATH 410	Complex Analysis for Mathematics and Engineering 3 Credits	Complex analytic functions; Cauchy-Riemann equations; complex contour integrals; Cauchy's integral formula; Taylor and Laurent series; residue theory; applications in engineering. MATH 410 Complex Analysis for Mathem
MATH 411	Ordinary Differential Equations 3 Credits	Linear ordinary differential equations; existence and uniqueness questions; series solutions; special functions; eigenvalue problems; Laplace transforms; additional topics and applications.
MATH 412	Fourier Series and Partial Differential Equations 3 Credits	Orthogonal systems and Fourier series; derivation and classification of partial differential equations; eigenvalue function method and its applications; additional topics. MATH 412 Fourier Series and Partial Differential Equatio
MATH 414	Introduction to Probability Theory 3 Credits	STAT(MATH) 414 is an introduction to the theory of probability for students in statistics, mathematics, engineering, computer science, and related fields. The course presents students with calculus-based probability concepts
MATH 415	Introduction to Mathematical Statistics 3 Credits	A theoretical treatment of statistical inference, including sufficiency, estimation, testing, regression, analysis of variance, and chi-square tests.
MATH 416	Stochastic Modeling 3 Credits	Review of distribution models, probability generating functions, transforms, convolutions, Markov chains, equilibrium distributions, Poisson process, birth and death processes, estimation.
MATH 417	Qualitative Theory of Differential Equations 3 Credits	Linear differential equations, stability of stationary solutions, ordinary bifurcation, exchange of stability, Hopf bifurcation, stability of periodic solutions, applications. MATH 417 Qualitative Theory of Differential Equations (3) (B
MATH 418	Introduction to Probability and Stochastic Processes for Engineering 3 Credits	Introduction to probability axioms, combinatorics, random variables, limit laws, and stochastic processes. Students may take only one course from MATH414 / STAT 414 and MATH 418 / STAT 418 for credit. STAT 418 / MATH
MATH 419	Theoretical Mechanics 3 Credits	Principles of Newtonian, Lagrangian, and Hamiltonian mechanics of particles with applications to vibrations, rotations, orbital motion, and collisions. PHYS 419 / MATH 419 Theoretical Mechanics (3) A second course in class
MATH 421	Complex Analysis 3 Credits	Infinite sequences and series; algebra and geometry of complex numbers; analytic functions; integration; power series; residue calculus; conformal mapping, applications.
MATH 425	Introduction to Operations Research 3 Credits	Nature of operations research, problem formulation, model construction, deriving solution from models, allocation problems, general linear allocation problem, inventory problems.
MATH 426	Introduction to Modern Geometry 3 Credits	Plane and space curves; space surfaces; curvature; intrinsic geometry of surfaces; Gauss-Bonnet theorem; covariant differentiation; tensor analysis.
MATH 427	Foundations of Geometry 3 Credits	Euclidean and various non-Euclidean geometries and their development from postulate systems. Students who have passed MATH 427 may not schedule MATH 471.
MATH 428	Geometry for Teachers 1 Credits	Research in mathematics education using ideas from Euclidean and non-Euclidean geometry. Students who have passed MATH 471 may not schedule MATH 427. MATH 428 Geometry for Teachers (1) MATH 428 is designe
MATH 429	Introduction to Topology 3 Credits	Metric spaces, topological spaces, separation axioms, product spaces, identificaiton spaces, compactness, connectedness, fundamental group.
MATH 430	Linear Algebra and Discrete Models I 3 Credits	Vector spaces, linear transformations, matrices determinants, characteristic values and vectors, systems of linear equations, applications to discrete models.
MATH 435	Basic Abstract Algebra 3 Credits	Elementary theory of groups, rings, and fields. Students who have passed MATH 435 may not schedule MATH 470.
MATH 436	Linear Algebra 3 Credits	Vector spaces and linear transformations, canonical forms of matrices, elementary divisors, invariant factors; applications. Students who have passed MATH 436 may not schedule MATH 441.
MATH 436H	Linear Algebra 3 Credits	Vector spaces and linear transformations, canonical forms of matrices, elementary divisors, invariant factors; applications.
MATH 437	Algebraic Geometry 3 Credits	Study of curves in the plane defined by polynomial equations p(x,y)= 0. Projective equivalence, singular points, classification of cubics. MATH 437 Algebraic Geometry (3)(BA) This course meets the Bachelor of Arts degree re
MATH 441	Matrix Algebra 3 Credits	Determinants, matrices, linear equations, characteristic roots, quadratic forms, vector spaces. Students who have passed Math 436 may not schedule this course.
MATH 448	Mathematics of Finance 3 Credits	The course provides a foundational knowledge of the mathematics and mathematical models of finance, primarily of option pricing, hedging, and portfolio optimization. The topics include the definition of various financial sec
MATH 449	Applied Ordinary Differential Equations 3 Credits	Differential and difference equations and their application to biology, chemistry, and physics; techniques in dynamical systems theory. MATH 449 Mathematical Modeling (3) Many phenomena that arise in the natural sciences
MATH 450	Mathematical Modeling 3 Credits	Constructing mathematical models of physical phenomena; topics include pendulum motion, polymer fluids, chemical reactions, waves, flight, and chaos. MATH 450 Mathematical Modeling (3) The purpose of the course is t
MATH 451	Numerical Computations 3 Credits	ALGORITHMS FOR INTERPOLATION, APPROXIMATION, INTEGRATION, NONLINEAR EQUATIONS, LINEAR SYSTEMS, FAST FOURIER TRANSFORM, AND DIFFERENTIAL EQUATIONS EMPHASIZING COMPUTATIONAL P
MATH 452	Deep Learning Algorithms and Analysis 3 Credits	This is an undergraduate course on the introduction of basic mathematical, numerical and practical aspects of deep learning techniques. It will provide students with the mathematical background and also practical tools nee
MATH 455	Introduction to Numerical Analysis I 3 Credits	Floating point computation, numerical rootfinding, interpolation, numerical quadrature, direct methods for linear systems. Students may take only one course for credit from MATH 451 and MATH 455.
MATH 455H	Introduction To Numerical Analysis I 3 Credits	FLOATING POINT COMPUTATION, NUMERICAL ROOTFINDING, INTERPOLATION, NUMERICAL QUADRATURE, DIRECT METHODS FOR LINEAR SYSTEMS. STUDENTS MAY TAKE ONLY ONE COURSE FOR CREDIT FRO
MATH 456	Introduction to Numerical Analysis II 3 Credits	Polynomial and piecewise polynomial approximation, matrix least squares problems, numerical solution of eigenvalue problems, numerical solution of ordinary differential equations.
MATH 457	Introduction to Mathematical Logic 3 Credits	Propositional logic, first-order predicate logic, axioms and rules of inference, structures, models, definability, completeness, compactness. Logic forms the foundation of all mathematical reasoning. To prove a mathematical t
MATH 465	Number Theory 3 Credits	Elements, divisibility of numbers, congruences, residues, and forms. MATH 465 Number Theory (3) (BA) This course meets the Bachelor of Arts degree requirements.This course serves as an upper-level introduction to the fu
MATH 467	Factorization and Primality Testing 3 Credits	Prime sieves, factoring, computer numeration systems, congruences, multiplicative functions, primitive roots, cryptography, quadratic residues. Students who have passed MATH 465 may not schedule this course.
MATH 468	Mathematical Coding Theory 3 Credits	Shannon's theorem, block codes, linear codes, Hamming codes, Hadamard codes, Golay codes, Reed-Muller codes, bounds on codes, cyclic codes.
MATH 470	Algebra for Teachers 3 Credits	An introduction to algebraic structures and to the axiomatic approach, including the elements of linear algebra. Designed for teachers and prospective teachers. Students who have passed Math 435 may not schedule this co
MATH 471	Geometry for Teachers 4 Credits	Problem solving oriented introduction to Euclidean and non-Euclidean geometries; construction problems and geometrical transformations via "Geometer's Sketchpad" software. Intended primarily for those seeking teacher
MATH 475Y	History of Mathematics 3 Credits	A global survey of the history of mathematics as viewed as a human response to cultural, political, economic, and societal pressures. MATH 475W Introduction to the History of Mathematics (3) (DF) The primary goal of this c
MATH 479	Special and General Relativity 3 Credits	Mathematical description, physical concepts, and experimental tests of special and general relativity. MATH 479 / PHYS 479 Special and General Relativity (3) This course is intended as an elective course (within the undergra
MATH 482	Mathematical Methods of Operations Research 3 Credits	Survey of linear and nonlinear programming; mathematics of optimization; queues; simulation.
MATH 484	Linear Programs and Related Problems 3 Credits	Introduction to theory and applications of linear programming; the simplex algorithm and newer methods of solution; duality theory.
MATH 485	Graph Theory 3 Credits	Introduction to the theory and applications of graphs and directed graphs. Emphasis on the fundamental theorems and their proofs.
MATH 486	Mathematical Theory of Games 3 Credits	Basic theorems, concepts, and methods in the mathematical study of games of strategy; determination of optimal play when possible. MATH 486 Mathematical Theory of Games (3) This course covers several major classes
MATH 490H	Honors Student Colloquium 1 Credits/Maximum of 6	The course comprises colloquium style weekly lectures by visitors and by Penn State faculty covering select topics in classical and contemporary mathematics. Some talks will describe math-intense jobs outside of academi
MATH 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MATH 494H	Thesis Project 3 Credits/Maximum of 6	The honors thesis proposal must be approved by the thesis supervisor and the honors adviser and submitted to the Schreyer Honors College prior to scheduling this course. Honors students in Mathematics should register f
MATH 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MATH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MATH 496A	**SPECIAL TOPICS** 1-6 Credits	No description

MATH 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MATH 497	Special Topics 1-9 Credits/Maximum of 999	Formal courses given infrequently to explore, in depth, a comparatively narow subject which may be topical or of special interest.
MATH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MTHED 197	Special Topics 1-9 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest
MTHED 240	Mathematics in Elementary School 3 Credits	This course focuses on the development of content and pedagogy for teaching mathematics to children in elementary school. In this course, future educators consider mathematics from the learner and teacher perspectives.
MTHED 297	Special Topics 1-6 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MTHED 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MTHED 411	Teaching Secondary Mathematics I 3 Credits	Conditions for learning mathematics; problem solving; subject matter types; curriculum; learning goals; nature and history of mathematics at secondary level MTHED 411 Teaching Secondary Mathematics I (3) This is the firs
MTHED 412W	Teaching Secondary Mathematics II 3 Credits	Assessing learning and instruction; methods of evaluation and grading; long- term planning; accommodating needs of diverse learners; connecting theory and practice. MTHED 412 Teaching Secondary Mathematics II (3) MT
MTHED 420	Teaching Mathematics In The Elementary Schools 3 Credits	MTHED 420 is designed to help teacher candidates: 1) to come to see mathematics, mathematics learning, and mathematics teaching as complex and to develop an inquiry approach to these domains; 2) to improve their un
MTHED 427	Teaching Mathematics in Technology-Intensive Environments 3 Credits	Interaction among pedagogy, content, and technology in mathematics teaching and learning in technology-intensive environments; secondary, early college curricula; laboratory experience. MTHED 427 Teaching Mathematic
MTHED 428	Fundamentals of Middle Grades Mathematics 1 3 Credits	This course develops essential understanding of number and algebra for teaching middle grades mathematics and builds on earlier mathematics courses. MTHED 428 Fundamentals of Middle Grades Mathematics 1 (3) MTH
MTHED 429	Fundamentals of Middle Grades Mathematics 2 3 Credits	This course develops essential understanding of geometry and probability for teaching middle grades mathematics and builds on earlier mathematics courses.
MTHED 430	Students' Mathematical Thinking 3-6 Credits	Develop abilities in planning, conducting, and interpreting mathematics interviews to gain an understanding of students' thinking processes and current knowledge.
MTHED 431	Data Analysis in Secondary School Mathematics 3 Credits	Intense development of foundations of data analysis for secondary mathematics as a process using statistical concepts for predictions and inferences. MTHED 431 Data Analysis in Secondary School Mathematics (3) As pro
MTHED 432	Mathematical Modeling in Secondary School Mathematics 3 Credits	Students work from teaching and curricular perspective to explore and apply school and undergraduate mathematics to model real-world phenomena. MTHED 432 Mathematical Modeling in Secondary School Mathematics
MTHED 433	Function Concept in Secondary School Mathematics 3 Credits	This course develops the concept of function as an essential topic that underlies and connects school and collegiate mathematics. MTHED 433 Function Concept in Secondary School Mathematics (3) Prospective teachers
MTHED 460	Trends and Issues in Science, Technology, Engineering, and Mathematics (STEM) Edu 3 Credits/Maximum of 3	Develops understandings of Science, Technology, Engineering, and Mathematics (STEM) education research and practices for PreK-12 teaching and learning
MTHED 481	Building Relationships and Resources to Address Inequities in Mathematics Teaching 1 Credits	To teach mathematics in equitable ways requires teachers to value students' out-of-school life and be partners with families and communities in supporting students' identity development and mathematics learning. We start
MTHED 482	Using Content in Context to Address Inequities While Teaching Mathematics 1 Credits	We start with a look at how context is used in developing course material, starting with mathematics word problems. We first draw attention to attempts to add context to content. We turn then to activities that are based on c
MTHED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MTHED 496H	Independent Studies (Honors) 1 Credits/Maximum of 1	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MTHED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MTHED 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ME 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ME 101	Toy Fundamentals: First-Year Seminar 1 Credits	First-Year Seminar focusing on toy design and manufacture. M E 101S Toy Fundamentals (1)(FYS) Toy Fundamentals is a First-Year Seminar intending to be an introduction to engineering design and prototyping through a pr
ME 102	Smart Lego Robots & Design 1 Credits	First-Year Seminar focusing on the development of technology exploration kits for middle-school-aged children. M E 102S Toys for Technology Exploration: First-Year Seminar (1) This is a First-Year Seminar that focuses on a
ME 190	Special Topics in Mechanical Engineering: First-Year Seminar 1 Credits	A First-Year Seminar focusing on issues related to Mechanical Engineering. M E 190S M E 190S Special Topics in Mechanical Engineering: First-Year Seminar (1) (FYS)In this First-Year Seminar, students will explore the Mech
ME 201	Introduction to Thermal Science 3 Credits	Application of the basic concepts of thermodynamics, fluid dynamics, and heat transfer to the solution of engineering problems.
ME 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
ME 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ME 300	Engineering Thermodynamics I 3 Credits	Basic thermodynamics concepts, properties of pure substances, first and second law analysis of systems and control volumes. M E 300 Engineering Thermodynamics I (3) This course is designed to develop an understandir
ME 308	Fluid Flow and Heat Transfer Laboratory 1 Credits	Experimental work to enhance understanding of thermodynamics, fluid dynamics, and heat transfer.
ME 315	Heat Transfer Laboratory 1 Credits	This one-credit laboratory course is structured to reinforce the various principles taught in the corresponding 3-credit lecture course - M E 410, Heat Transfer. The laboratory includes several different experiments whose objec
ME 320	Fluid Flow 3 Credits	This course is an introduction to fluid mechanics, and emphasizes fundamental concepts and problem-solving techniques. Topics to be covered include fluid properties (density, viscosity, vapor pressure, surface tension); flui
ME 325	Fluids Laboratory 1 Credits	The course is designed for students to understand basic concepts of fluid mechanics through analysis of experimental data from various sources. The course emphasizes hands-on experience to take measurements, analyze
ME 330	Computational Tools 3 Credits	This course gives students physical insights as well as introductory skills on the use of modern computational tools in solving mechanical engineering problems. The course has two main thrusts: 1) finite element analysis for
ME 340	Mechanical Engineering Design Methodology 3 Credits	The design process; problem definition, conceptual design, system design, detail design, evaluation and test, implementation, documentation and communication. M E 340 Mechanical Engineering Design Methodology (3) T
ME 345	Instrumentation, Measurements, and Statistics 4 Credits	Fundamentals of statistics, sensors, instrumentation, and measurement of mechanical phenomena such as temperature, flow, pressure, force, stress, displacement, and acceleration. M E 345 Instrumentation, Measurements
ME 345W	Instrumentation, Measurements, and Statistics 4 Credits	Measurement concepts, probability and statistics, error analysis; electro- mechanical transducers, applied electrical and mechanical measurements, electrical and electronics instruments, data acquisition and instrumentatior
ME 348	Circuit Analysis, Instrumentation, and Statistics 3 Credits	ME 348 Circuit Analysis, Instrumentation, and Statistics (4) This course is required for all mechanical engineering students, and is taken in the junior year. It serves as an introduction to the fundamental principles of circuit ana
ME 349	Intermediate Mechanics of Materials 3 Credits	Intermediate topics in mechanics of materials with computer applications. M E 349 Intermediate Mechanics of Materials (3) This course introduces students to intermediate and applied topics in mechanical behavior of mate
ME 355	Dynamic Systems Laboratory 1 Credits	Experimental investigation of simple position, velocity, and temperature control systems with analog and digital controllers. M E 355 Dynamic Systems Laboratory (1) The objective of the Dynamic Systems Laboratory is to er
ME 357	System Dynamics 3 Credits	Mathematical modeling and analysis of linear dynamic systems; performance and design of simple controllers. M E 357 System Dynamics (3)This course is to explore the modeling of linear systems via transfer functions and
ME 360	Mechanical Design 3 Credits	Specification of components such as shafts, bearings, and power transformers; optimal designs for operational, environmental, and manufacturing requirements. ME 360 Mechanical Design (3) This course is required for all m
ME 365	Materials Testing Laboratory 1 Credits	Laboratory for materials testing, property identification and modification, failure analysis, and metallurgical testing. M E 365 Materials Testing Laboratory (1)This laboratory course provides an integrated approach to materials
ME 367	Machine Design 3 Credits	Design and selection of machine components and connections. Stress analysis and modes of failure of materials used in machine components. M E 367 Machine Design (3) This course introduces students to the process for
ME 370	Vibration of Mechanical Systems 3 Credits	Modeling and analysis of vibration characteristics of mechanical systems with single degree and multiple degrees of freedom. Vibration control by isolation, absorption and balancing. M E 370 Vibration of Mechanical Syster
ME 375	Vibrations Laboratory 1 Credits	Experimental measurement and analysis of mechanical system dynamics. This laboratory course provides an opportunity to apply the fundamental vibrations theory taught in ME 370 to actual mechanical hardware. The expe
ME 380	Machine Dynamics 3 Credits	Kinematic analysis of mechanisms such as linkages, flywheels, cams and gears. Dynamic forces and vibrations of mechanisms. M E 380 Machine Dynamics (3)In this course students learn how to apply the techniques of dyr
ME 390	Academic and Career Development for Mechanical Engineers 0.5 Credits	ME 390 Academic and Career Development for Mechanical Engineers (0.5) guides students through the process of tailoring their academic studies to suit their individual career goals. Students will look at career opportunities
ME 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ME 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ME 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
ME 400	Thermodynamics of Propulsion and Power Systems 3 Credits	Analysis and modeling of propulsion and power systems, including combustion, compressible flow through nozzles, chemical equilibrium, and moist air systems. M E 400 Thermodynamics of Propulsion and Power Systems (
ME 401	Refrigeration and Air Conditioning 3 Credits	Theoretical principles, design, performance, and selection of various refrigeration and air-conditioning systems; building heat and cooling loads; solar heating.
ME 403	Polymer Electrolyte Fuel Cell Engines 3 Credits	Introduction to Fundamentals of Polymer Electrolyte Fuel Cells (PEFCs). Includes fundamentals of electrochemistry, thermodynamics, fluid mechanics, heat transfer materials, and manufacturing issues of PEFCs. A brief surv
ME 404	Gas Turbines 3 Credits	This course enables students with the proper background to gain specialized knowledge as a step towards becoming practitioners in the field of gas turbines. The information imparted covers from basic cycles to properties

ME 405	Indoor Air Quality Engineering 3 Credits	Prediction of the motion of contaminants (both gaseous particulate) in gas streams; analysis of ventilation systems and air pollution control systems; comparison of experimental sampling techniques. M E 405 Indoor Air Qua
ME 406	Introduction to Statistical Thermodynamics 3 Credits	Statistical description of systems composed of large numbers of particles in the context of classical and quantum mechanics; basic concepts of probability theory and thermodynamics as they relate to statistical mechanics.
ME 408	Energy Systems 3 Credits	Theory, analysis, design, selection, and application of energy conversion systems. This course is intended for mechanical engineering students to reinforce the topics taught in thermodynamics, fluid mechanics, and heat anc
ME 410	Heat Transfer 3 Credits	Thermal energy transfer mechanisms: conduction (steady, transient), convection (internal, external), radiation; lumped parameter method; heat exchangers; introduction to numerical methods. ME 410, Heat Transfer, is a requi
ME 411	Heat-Exchanger Design 3 Credits	Thermal design and application of different heat-exchanger types, including surface selection and design optimization.
ME 420	Compressible Flow I 3 Credits	This course is a technical elective. We cover several unique concepts and applications of compressible flow, including: speed of sound and Mach number, isentropic 1-D flow in variable area ducts, converging nozzles, chokir
ME 422	Principles of Turbomachinery 3 Credits	Conservation laws pertinent to energy conversion and fluid mechanics are applied to pumps, centrifugal compressors, axial compressors and turbines, hydro turbines and wind turbines. Ideal performance is established, and
ME 423	Introduction to Numerical Methods in Fluid Dynamics 3 Credits	This course provides an introduction to the important and growing field of Computational Fluid Dynamics (CFD). The student will become familiar with a short history and relevance of CFD, the basic differential models of fluic
ME 424	Additive Manufacturing Lab 1 Credits	Explore various aspects of 3D printing. Topics will vary by semester, depending on the current technology and advancements in the field. This laboratory course provides an integrated approach to additive manufacturing and
ME 427	Aerodynamics for Mechanical Engineers 3 Credits	The primary objective of this course is to teach students how to apply concepts relating to incompressible flows to solve aerodynamic design problems. In incompressible aerodynamics, fundamental concepts such as lift, dr
ME 428	Applied Computational Fluid Dynamics 3 Credits	Introduction to theory and application of computational techniques for solving fluid flow and heat transfer. M E 428 Applied Computational Fluid Dynamics (3) The purpose of this course is to teach students how to use a con
ME 430	Introduction to Combustion 3 Credits	Concepts related to laminar and turbulent premixed and nonpremixed combustion with applications to propulsion and stationary systems. EGEE (M E) 430 Introduction to Combustion (3) This course provides an introductory
ME 431	Internal Combustion Engines 3 Credits	This course is specifically designed to provide an integrative modeling and analysis approach to thermal-fluids systems. The course emphasizes the integration and application of fundamental principles of mass, momentum,
ME 432	Rocket Propulsion 3 Credits	Overview of underlying theories and design practices of chemical and non-chemical rocket propulsion systems. The topical areas include basic thermodynamics and gas dynamics, propellant formulation and characterizatior
ME 433	Fundamentals of Air Pollution 3 Credits	Natural and man-made sources of pollution; atmospheric dispersion; biological and health effects; control systems; legislation and regulations. This course is an introduction to air pollution, with an emphasis on outdoor rathe
ME 435	Mechanical Engineering Systems Lab 3 Credits	This course studies fundamental mechanical engineering subjects, including mechanics, dynamics, heat transfer, fluid mechanics, material science, and control in a holistic approach, through real-world systems in topics, suc
ME 440W	Mechanical Systems Design Project 3 Credits	Design and analysis of mechanical components and systems. Application of fundamental design and analysis methods to open ended engineering problems. Students develop and practice skills and techniques for managing
ME 441W	Thermal Systems Design Project 3 Credits	Design of thermal systems through component design and/or selection, system simulation and optimization. Assessment of system economics and energy efficiency. ME 441 Thermal Systems Design Project (3) Students de
ME 444	Engineering Optimization 3 Credits	Problem formulation, algorithms and computer solution of various engineering optimization problems. M E 444 Engineering Optimization (3)Students will learn to formulate and solve a variety of engineering optimization prob
ME 445	Microcomputer Interfacing for Mechanical Engineers 4 Credits	Interfacing of electro-mechanical systems to microcomputers for data acquistion, data analysis and digital control.
ME 448	Engineering Design Concepts 3 Credits	Engineering design and modelling, engineering economic analysis techniques, technical communication skills, project planning and design. M E 448 Engineering Design Concepts (3)This course is the first of a two-part seque
ME 449	Mechanical Design Projects 3 Credits	Group or individual design projects in the areas of mechanical engineering.
ME 450	Modeling of Dynamic Systems 3 Credits	Modeling and analysis of dynamic interactions in engineering systems. Classical and state variable methods; digital simulation; stability and dynamic response. M E 450 Modeling of Dynamics Systems (3) This course covers
ME 452	Vehicle Road Dynamics 3 Credits	This course conducts investigations of one-dimensional, two-dimensional, and three-dimensional dynamics, kinematics and design integrated into the study of vehicle dynamics. Topics include body kinematics, steady state
ME 454	Mechatronics 3 Credits	Interfacing of electro-mechanical hardware to microcomputers and microcontrollers for data acquisition, data analysis, and digital control. The course addresses the need for today's mechanical engineer to understand the ar
ME 455	Automatic Control Systems 3 Credits	This course covers the characterization and feedback control of linear time invariant (LTI) dynamic systems, classical feedback control theories will be emphasized. Basic concepts of analyzing, predicting and specifying the p
ME 456	Introduction to Robotics 3 Credits	This course is a technical elective where students learn about the present and future status of robot applications, and are required to apply fundamental knowledge of physics, mechanics, and mathematics to develop softwa
ME 459	Machine Learning in Mechanical Engineering 3 Credits	This course is designed to equip mechanical engineering students with the essential skills to bridge the gap between theoretical machine-learning models and real-world mechanical engineering challenges. This course serve
ME 460	Advanced Machine Design Problems 3 Credits	This course is designed to approach and analyze fundamental problems in the design of advanced level machine components and systems. It integrates advanced concepts in fatigue, vibrations, mechanics of materials and
ME 461	Finite Elements in Engineering 3 Credits	Computer modeling and fundamental analysis of solid, fluid, and heat flow problems using existing computer codes. E MCH (M E) 461 Finite Elements in Engineering (3) This is an introductory course in the Finite Element Me
ME 462	Lubrication in Machine Design 3 Credits	Lubricants and lubrication with applications to design aspects of machines and mechanisms including bearings, gears, cams, and automotive engines. M E 462 Lubrication in Machine Design (3) The course covers interdisci
ME 465	Introduction to Manufacturing Laboratory 1 Credits	A laboratory-based introduction to manufacturing processes including material removal, forming, casting and joining for metals and non-metals. M E 465 Introduction to Manufacturing Laboratory (1)This laboratory course pr
ME 467	Applied Finite Element Analysis 3 Credits	Review of matrix algebra; discretization; finite element formulation; application of finite element computer codes.
ME 468	Engineering for Manufacturing 3 Credits	Manufacturability, the selection of the most effective materials and processes, and quality assurance. M E 468 Engineering for Manufacturing (3) This course will present an overview of the various manufacturing techniques t
ME 469	Metallic Manufacturing Processes 3 Credits	Principles of metal working and introduction to current theories; analysis of deformation, joining, and metal removal processes. M E 469 Metallic Manufacturing Processes (3)In this integrated lecture/laboratory course studer
ME 470	Analysis and Design in Vibration Engineering 3 Credits	Application of Lagrange's equations to mechanical system modeling, multiple- degree-of-freedom systems, experimental and computer methods; some emphasis on design applications. In this course, students will learn bas
ME 480	Mechanism Design and Analysis 3 Credits	Design and analysis of mechanical linkages including kinematic synthesis and dynamic analysis. Linkages for a variety of applications are considered. M E 480 Mechanism Design and Analysis (3) The student who takes this
ME 481	Introduction to Computer-Aided Analysis of Machine Dynamics 3 Credits	Techniques and formulations for computer based kinematic and dynamic analyses of machines. M E 481 Introduction to Computer-Aided Analysis of Machine Dynamics (3) This course addresses computer methods for kine
ME 490	Professional Development for Mechanical Engineers 0.5 Credits	ME 490 Professional Development for Mechanical Engineers (0.5) provides a look at foundational business issues of importance to new engineers: creating value, organizational models, financial statements, and intellectual p
ME 491	Bioengineering Applications of Mechanical Engineering 3 Credits	Application of mechanical engineering knowledge in the context of life sciences. M E 491 Bioengineering Applications of Mechanical Engineering (3)The primary objective of this course is to teach students how to apply mech
ME 493	ME Honors Thesis Writing Preparation 1 Credits	The goal of this course is to prepare mechanical engineering Schreyer honors scholars for their final honors thesis. The course helps students identify a thesis supervisor if the student has not already found a thesis supervisc
ME 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
ME 494H	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course. M E 494H Senior Thesis (1-9) All Schreyer Scholars are required to complete an undergraduate honors thesis. This work represents the culmina
ME 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
ME 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including nonthesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.
ME 496A	**SPECIAL TOPICS** 1-6 Credits	No description
ME 496H	Honors Research 1-6 Credits	Honors research that fulfills Shreyer's Honor College requirements. This research will serve as a basis for my honors thesis. Research regarding the development and manufacturing of micro fuel cells. Course will be graded o
ME 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
ME 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MET 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MET 107	Computer Applications for Technologists 3 Credits	Programming spreadsheets, data bases and presentation software for solutions of technical problems; introduction to languages allowing creation of program macros.
MET 111	Mechanics for Technology: Statics 3 Credits	Forces; moments; resultants; two- and three-dimensional equilibrium of force systems; friction; centroids and moments of inertial of areas. MET 111 Mechanics for Technology: Statics (3) MET 111 will provide practical and c
MET 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MET 206	Dynamics 3 Credits	Kinematics (particles and rigid bodies), kinetics, work-energy, impulse- momentum, and mechanisms. MET 206 Dynamics (3) Instructional, Educational, and Course Objectives - To introduce students to the basic principles c
MET 210W	Machine Design 3 Credits	Design machine elements including bearings, springs, levers, shafts, gears, belts, and small mechanical devices; writing skills and computer applications. MET 210W Machine Design (3) ME T 210W is designed to provide st
MET 213	Strength and Properties of Materials 3 Credits	Axial stress and strain; shear; torsion; beam stresses and deflections; combined axial and bending stresses; columns, ductility, resilience, and toughness. MET 213 Strength and Properties of Materials (3)MET 213 includes a
MET 214	Strength and Properties of Materials Laboratory 1 Credits	Measurement of mechanical properties of materials; structural testing, data acquisition and analysis; technical laboratory report writing.
MET 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.

MET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MET 306	Computer-Aided Design 3 Credits	Computer-aided drafting and design; computer software solutions to mechanical engineering technology design problems. MET 306 Computer-Aided Design (3) This course is designed to be the third CAD course in a Mech
MET 308	Computer Aided Solid Modeling and Analysis 3 Credits	Basic techniques necessary to perform Computer Aided Design and Analysis in three dimensions for machine components. MET 308 Computer Aided Solid Modeling and Analysis (3) To introduce students to the theory and
MET 320	Strength of Materials II 3 Credits	Principles of stress and strain in 3D, indeterminate structures, failure theory, and energy methods in solid mechanics. MET 320 Strength of Materials II (3) This course consists of three main subject areas; a study of statically
MET 321	Analytical Techniques 2 Credits	A study of engineering methods of problem formulation and solution; includes differential methods, dimensional analysis, and graphical analysis.
MET 330	Thermodynamics 3 Credits	Introduction for technologists to the basic concepts and applications of thermodynamics. MET 330 Thermodynamics (3)This course is designed as the first thermal sciences course in a series of three. Students are introduce
MET 331W	Heat Transfer 4 Credits	Introduction for technologists to the basic concepts and applications of heat transfer. Includes a thermodynamics and heat transfer laboratory.
MET 332	Thermal Engineering A 3 Credits	Basic thermodynamic units, concepts, properties of ideal gases and vapors, first and second laws, gaseous mixtures, one-dimensional compressible flow.
MET 336	Engineering Fluid Mechanics 3 Credits	This course introduces mechanical engineering technology students to the development of basic fluid mechanics relationships. Course topics include such as fluid properties, pressure measurement, hydrostatic forces on pla
MET 338	Thermal/Fluids Laboratory 1 Credits	The objective of the Thermal/Fluids Lab course is to provide Mechanical Engineering Technology students with practical experience in thermal-fluid applications. Students will develop experience in making fluid velocity, flow
MET 341	Mechanical Measurements and Instrumentation 3 Credits	Measurement concepts, transducers, electronic-aided measurement, mechanical and electrical measurements. Intended for mechanical engineering technologists. MET 341 Mechanical Measurements and Instrumentation (
MET 358	Process Design Engineering 3 Credits	Introduction to process design for production applications from job shop to world-class manufacturing environments. MET 358 Process Design Engineering (3) Process design engineering includes the theory and application
MET 365	Design of Machine Elements 3 Credits	Design of structural and mechanical elements with emphasis on theories of fatigue failure. MET 365 Design of Machine Elements (3)Design of Machine Elements covers a wide array of mechanical engineering principles. The
MET 370	Engineering Materials Laboratory 1 Credits	Materials Science and Engineering is an organized investigation of engineering materials, including their classification, properties, and means of testing to determine their properties. In materials courses different topics such a
MET 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MET 403	Advanced Mechanical Design 3 Credits	Continuation of strength of materials and machine design, with emphasis on advanced methods of design and analysis of machine elements.
MET 415	Finite Element Analysis Applications I 3 Credits	Solutions of advanced engineering design problems using finite elements. Intended for engineering technologists. MET 415 Finite Element Analysis Applications I (3) Finite Element Analysis Applications I is a required course
MET 417	Finite Element Analysis 3 Credits	Formulation and computer implementation of finite element models for solving problems in heat transfer, fluid flow, and solid mechanics.
MET 418	Finite Element Analysis for Plastics Design 3 Credits	Solutions of advanced engineering problems using finite element and finite difference techniques; advanced topics in computer-aided manufacturing; problems in optimization and design.
MET 425	Finite Element Analysis Applications II 3 Credits	Solutions of advanced engineering design problems using finite element methods. MET 425 Finite Element Analysis Applications II (3) Students study advanced topics in finite element analysis (FEA), including CAD interfaces
MET 431	Heat Transfer 3 Credits	Basic principles of conduction, convection, and radiation with applications.
MET 432	Fluid Power 3 Credits	Principles of fluid flow, hydraulic components, and hydraulic circuits having application to industry. MET 432 Fluid Power (3) This course studies fluid motion, flow, and energy losses, as well as, fluid storage and distribution.
MET 435	Building Energy Systems 3 Credits	Analysis and design of components and systems for building heating and cooling; emphasis on applying the thermal sciences.
MET 436	Energy Conservation Systems 3 Credits	Analysis of processes and systems for energy conversion, including power, refrigeration and air conditioning cycles, thermoelectric etc.
MET 438	Thermal Engineering B 3 Credits	Applied thermodynamics of power cycles; refrigeration and air conditioning cycles; combustion; psychometrics; and gas mixtures.
MET 440	Vibrations for Technologists 3 Credits	Principles of basic vibration theory, vibration measurement, data acquisition and analysis, and the effective presentation of vibration data. MET 440 Vibrations for Technologists (3) This course will introduce students to basic
MET 452	Rapid Prototyping 3 Credits	Introduction to the production of prototypes directly from computer models.
MET 454	Automatic Controls 3 Credits	An introduction to basic automatic control theory, practical applications of automatic controls to typical industrial machinery, HVAC equipment, etc. MET 454 Automatic Controls (3) This course is intended for mechanical eng
MET 457	Lean Manufacturing 3 Credits	Principles and methods of Lean Manufacturing currently used in modern industries. MET 457 Lean Manufacturing (3)This course introduces the students to the methods of Lean Manufacturing used currently in the manufact
MET 458	Controls Laboratory 1 Credits	Introduction to open loop, closed loop, error analysis, and main components of a control loop. Analysis concepts cover first and second-order systems, stability criterion, and transfer functions. Application of electronics, ana
MET 461	Advanced Machine Design 3 Credits	Stress analysis, material selection, design of machine elements, design of connections, and computer-aided design.
MET 462	Internal Combustion Engine Design 3 Credits	The effect of operation requirements on design and construction of internal combustion engines; study of support systems and emissions control.
MET 470	Materials Engineering 3 Credits	Study of material selection, material properties, material test methods, and special topics.
MET 480	Senior Capstone 1 Credits	Career and professional topics; development of year-long senior project with industry. MET 480 Senior Capstone (1) Senior Capstone is a required course for senior-level students in the Mechanical Engineering Technology (M
MET 481	Project Design 3 Credits	This course is the first of a two-part course sequence that comprises the capstone design experience in the MET major (the second course is MET 486, Project Design). In this course students study the engineering design pr
MET 485	Senior Industrial Project 3 Credits	Individual or group design projects in mechanical design or materials.
MET 486	Project Design 3 Credits	Design of system or machine, including decision making, engineering analysis, layout, detail drawings, specifications, construction.
MET 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica or internships. Written and oral critique of activity required.
MET 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MET 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MEDVL 107	Medieval Europe 3 Credits	HIST 107 / MEDVL 107 examines the history of Europe from c. 300-c. 1400 CE. The many themes of this course include: the development of political, judicial and diplomatic institutions; the role of religion, especially that of C
MEDVL 108	Medieval Civilization 3 Credits	MEDVL 108 offers an interdisciplinary introduction to the culture and society of medieval Europe from c. 400-1500 CE. The course examines the literature, history, art, and thought of medieval society, focusing on a geograph
MEDVL 108H	Medieval Civilization 3 Credits	An interdisciplinary introduction to literature, art, and thought of the Middle Ages.
MEDVL 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MEDVL 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MEDVL 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MEDVL 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MEDVL 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MEDVL 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

MEDVL 411	Medieval Britain 3 Credits	Political, cultural, and economic history of Britain from circa 400 to 1485 with an emphasis on the kingdom of England.
MEDVL 413	Medieval Celtic Studies 3 Credits	Celtic civilization from antiquity to the end of the middle ages.
MEDVL 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MEDVL 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
MEDVL 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MEDVL 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
MEDVL 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MEDVL 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
METEO 1N	Surviving the Storm: Navigating Weather Disasters 3 Credits	Extreme weather brings immense economic costs and threatens individuals, communities, and ecosystems. In the United States, extreme weather events have caused trillions of dollars in damage and killed tens of thousand
METEO 3	Weather Revealed: Introductory Meteorology 3 Credits	Nontechnical treatment of fundamentals of modern meteorology and the effects of weather and climate. Weather Revealed: Introductory Meteorology meets the Bachelor of Arts degree requirements. The objectives of the co
METEO 4	Weather and Risk 3 Credits	Non-technical introduction to the science and historical development of meteorology, and the role of weather forecasting as a tool for risk management by individuals, businesses, and societies. METEO 4 traces the developn
METEO 5	Severe and Unusual Weather 3 Credits	Non-technical introduction to the physical processes important in the formation of various severe and unusual weather phenomena. METEO 5 provides a current, relevant, and scientifically accurate discussion of a wide rang
METEO 6N	History and Weather: How Weather Played an Instrumental Role in Great World Event 3 Credits	In HIST 6N / METEO 6N, we'll survey how weather and history are integrated throughout time. Moving from past to present, the course will use case studies to navigate historical moments where weather shaped the outcom
METEO 7	An Introduction to Climate Sciences: Climate change, Variability, and Society 3 Credits	This course provides an overview of factors that serve as the basis for understanding climate change and climate variability. METEO 007: An Introduction to Climate Science: Climate Change, Climate Variability, and Society u
METEO 51N	Meteorology and Visual Arts: To Know is to See 3 Credits	This course examines the inter-relationship between what we know and what we see, through an introductory exploration of art and science. Engaging students in the study of weather formation, mainly clouds, artistic depict
METEO 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
METEO 101	Understanding Weather Forecasting 3 Credits	Fundamental principles of synoptic and physical meteorology, satellite and radar imagery, and data analysis in the setting of mid-latitude weather forecasting. METEO 101 Introduction to Weather Forecasting (3) (BA) This co
METEO 122	Atmospheric Environment: Growing in the Wind 3 Credits	Atmospheric Environment: Growing in the Wind is for students who are interested in learning about the dynamic effects of weather on plants and animals. It is about how processes at the ground surface and in the air govern
METEO 133N	Ethics of Climate Change 3 Credits	Climate change is not only a political, economic, and social crisis, it presents one of the great moral problems of our time. This course will cover the science, policy, and ethics of climate change. It fulfills general science requ
METEO 201	Introduction to Weather Analysis 3 Credits	Introduction to the collection, display, and application of weather observations and numerical forecasts used by the operational meteorologists. Students who have passed both METEO 200A and 200B may not schedule this
METEO 215	Weather Forecast Preparation Laboratory 0.5 Credits/Maximum of 4	Forecast methods/data discussed prior to nightly weather forecast entry. Satisfactory performance will be determined by attendance and forecast accuracy. METEO 215 Weather Forecast Preparation Laboratory (0.5 per sem
METEO 241	Fundamentals of Tropical Forecasting 3 Credits	Applying atmospheric principles to the tropics, with an emphasis on the development, structure, prediction and destructive impact of hurricanes. METEO 241 Fundamentals of Tropical Forecasting (3) Worldwide, approximate
METEO 273	Introduction to Programming Techniques for Meteorology 3 Credits/Maximum of 3	Algorithm design and implementation for meteorological analysis and forecasting. Algorithm design and implementation for meteorological analysis and forecasting, including access to datasets in meteorological common da
METEO 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
METEO 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
METEO 300	Fundamentals of Atmospheric Science 4 Credits	An introduction to the fundamentals of atmospheric dynamics, physics, and chemistry. METEO 300 Fundamentals of Atmospheric Science (4)This course prepares students for their 400-level meteorology courses by laying a

METEO 332N	Science and policy of global greenhouse gas emissions and management 3 Credits	This interdomain course introduces students to the science and policy of greenhouse gas emissions. The course focuses on emissions from natural sources, energy production and food production. Policy components will in
METEO 361	Fundamentals of Mesoscale Weather Forecasting 3 Credits	Applying atmospheric principles to small-scale weather systems, with an emphasis on the conceptual modeling and short-range prediction of severe thunderstorms. METEO 361 Fundamentals of Mesoscale Weather Foreca
METEO 395	**SPECIAL TOPICS** 3 Credits/Maximum of 6	No description
METEO 395A	Internship in Meteorological Communication 3 Credits/Maximum of 6	METEO 395A Internship in Meteorological Communication (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship with an agency or company that focuses on communication of weather f
METEO 395B	Private Sector Meteorology Internship 3 Credits/Maximum of 6	METEO 395B Private Sector Meteorology Internship (3)A student participates for at least 100 hours in an internship with a private sector company that focuses on problems or applications that use meteorological information
METEO 395C	Internship in Meteorological Operations 3 Credits/Maximum of 6	METEO 395C Internship in Meteorological Operations (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship in an operational setting that focuses on the creation of time-sensitive meteor
METEO 395D	International Meteorological Internship 3 Credits/Maximum of 6	METEO 395D International Meteorological Internship (3)A student participates for at least 100 hours in an internship in an international setting that focuses on applying meteorological knowledge. This internship is normally co
METEO 395E	Off-Campus Meteorological Research Internship 3 Credits/Maximum of 6	METEO 395E Off-Campus Meteorological Research Internship (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship whose focus is a research project requiring applications of meteorolo
METEO 410	Advanced Topics in Weather Forecasting 3 Credits	Exploring highly specialized topics and techniques in weather forecasting that span from mesoscale to planetary spatial scales and short-term to long- range time scales. METEO 410 Advanced Topics in Weather Forecasting
METEO 411	Synoptic Meteorology Laboratory 4 Credits	Meteo 411 focuses on the description, analysis, evolution, and prediction of large-scale weather systems such as extratropical cyclones, jet streams, and fronts, with an emphasis on techniques for analyzing synoptic-scale w
METEO 413	Map Analysis 3 Credits	Analysis of actual surface weather observations, with emphasis on the Norwegian cyclone model, missing or bad data, and mesoscale phenomena. METEO 413 Map Analysis (3) METEO 413, Map Analysis, is designed as a
METEO 414	Mesoscale Meteorology 4 Credits	A survey of conceptual models and analysis techniques for mesoscale atmospheric features.
METEO 415	Forecasting Practicum 3 Credits	Modern techniques in weather analysis and forecasting.
METEO 416	Advanced Forecasting 3 Credits	Competitive, simulated, operational, real-time forecasting is covered.
METEO 419	Air Quality Forecasting 3 Credits	Issues relating to the prediction and dispersion of air pollutants are discussed. METEO 419 Air Quality Forecasting (3) Prediction of air quality is discussed from the perspective of operational weather forecasting. The chemic
METEO 421	Atmospheric Dynamics 4 Credits	Balanced and unbalanced flows, vorticity, circulation and potential vorticity, an introduction to wave dynamics and stability analysis, and a quantitative discussion of the general circulation. Meteo 421 Atmospheric Dynamics
METEO 422	Advanced Atmospheric Dynamics 3 Credits	Survey of advanced dynamical topics including instabilities, numerical modeling, and others of current interest. METEO 422 Advanced Atmospheric Dynamics (3)This course in atmospheric dynamics covers advanced topics
METEO 426	Inside Numerical Weather Prediction Models 3 Credits	METEO 426 will provide students with a practical understanding of the structure of numerical weather prediction (NWP) models in the context of their application to real world precipitation forecasting. The course combines le
METEO 431	Atmospheric Thermodynamics 3 Credits	Classical thermodynamics applied to both the dry and the moist atmosphere.
METEO 434	Radar Meteorology 3 Credits	In METEO 434, students will learn the basic operating principles and applications of weather radar, a primary observing platform for both operational and research meteorologists. In particular, students will learn the fundame
METEO 436	Radiation and Climate 3 Credits	Elements of earth-sun geometry, radiative transfer, photochemistry, remote sensing of the atmosphere, physical climatology, climate forcing. METEO 436 Radiation and Climate (3)This course covers radiation and how it inter
METEO 437	Atmospheric Chemistry and Cloud Physics 3 Credits	Properties of aerosols and clouds, cloud nucleation and precipitation processes, atmospheric electricity, cloud and precipitation chemistry, biogeochemical cycles. METEO 437 Atmospheric Chemistry and Cloud Physics (3)T
METEO 440W	Principles of Atmospheric Measurements 3 Credits	Theory and practices used in measurement and analysis of meteorological variables. METEO 440W Principles of Atmospheric Measurements (3) The standard theories and practices used in measurement and analysis of atm
METEO 451	Introduction to Physical Oceanography 3 Credits	Air-sea interaction, wind-driven and thermohaline circulations, upwelling, El Nino, waves, and tides. METEO 451 Elements of Physical Oceanography (3) The primary objective of this course is to describe the circulation of the
METEO 452	Tropical Meteorology 3 Credits	Atmospheric processes in the tropics; mass, heat, energy, momentum, and water vapor budgets, cumulus convection, hurricanes and other disturbances.
METEO 454	Introduction to Micrometeorology 3 Credits	Physical processes and their measurement in the lowest layers of the atmosphere; application to hydrology, plant systems, and air pollution. METEO 454 Introduction to Micrometeorology (3) Students will learn the basic fluid
METEO 455	Atmospheric Dispersion 3 Credits	The basic principles of atmospheric flow, introduction to the modeling of turbulent diffusion, and the use of EPA dispersion models. METEO 455 Atmospheric Dispersion (3) Students will learn both the theory and current prac
METEO 460	Weather Risk and Financial Markets 3 Credits	This course will introduce the role that weather plays as a source of financial and operational risk for businesses, market and other institutions. METEO 460 Weather Risk and Financial Markets (3)The course introduces stude
METEO 465	Middle Atmosphere Meteorology 3 Credits	A topical survey of physical, chemical, and dynamical processes at work in the stratosphere and mesosphere (middle atmosphere).
METEO 466	Planetary Atmospheres 3 Credits	A survey of planetary atmospheres and the chemical and physical processes by which they form and evolve.
METEO 469	From Meteorology to Mitigation: Understanding Global Warming 3 Credits	Examination of global warming and climate change: the basic science, projects, impacts, and approaches to mitigation. METEO 469 From Meteorology to Mitigation: Understanding Global Warming (3) Human-caused climat
METEO 470	Climate Dynamics 3 Credits	The fundamental principles that govern Earth's climate and their relevance to past and future climate change. METEO 470 Climate Dynamics (3) Climate Dynamics delves into the fundamental processes that control the earth
METEO 471W	Atmospheric Optics 3 Credits	This upper-level undergraduate course will cover the fundamental physics of light and scattering of light by atmospheric particles. Knowledge of these processes will be applied to understand how they result in optical display
METEO 473	Application of Computers to Meteorology 3 Credits	Application of statistical and numerical methods to practical problems in meteorology.
METEO 474	Computer Methods of Meteorological Analysis and Forecasting 3 Credits	Distribution of scalars and vectors; sampling; regression and correlation in two and three dimensions; time series, statistical forecasting; forecast verification. METEO 474 Computer Methods of Meteorological Analysis and F
METEO 477	Fundamentals of Remote Sensing Systems 3 Credits	The review of fundamental physical properties leads into discussions of various techniques, including imaging, spectroscopy, radiometry, and active sensing.
METEO 481	Weather Communications I 3 Credits	Multi-instructor weather communications survey including forecasting, science teaching and writing, television and radio broadcasting, climate studies, forensics, industrial applications.
METEO 482	Weather Communications II 3 Credits	Multi-instructor workshop designed to mimic real-life applications of weather communications in industry, broadcasting, the courtroom, and the classroom.
METEO 483	Weather Communications III 3 Credits	Individualized course designed for in-depth study of weather communications in industry, broadcasting, the courtroom and/or the classroom.
METEO 486	Pennsylvania Climate Studies 1-2 Credits/Maximum of 3	An overview of the Pennsylvania State Climate Office and an introduction to various aspects of its operations. METEO 486 Pennsylvania Climate Studies (1-2) Those interested in climate topics will become thoroughly acqua
METEO 491	Professional Development 1 Credits	Geared towards rising juniors and seniors, this one-credit course will offer practical advice and ample opportunities for reflection about one's future career within Meteorology and Atmospheric Science. The course will help to
METEO 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
METEO 494H	Research Project 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small-group basis.
METEO 494M	Thesis Research 3 Credits	METEO 494M Thesis Research (3). In this course, students will write a professionally structured thesis that is grounded in a solid research foundation. In the process, students will learn the elements of excellent technical scie
METEO 495	**SPECIAL TOPICS** 3 Credits/Maximum of 6	No description
METEO 495A	Meteorology Communications Internship 3 Credits/Maximum of 6	METEO 495A Meteorology Communications Internship (3 per semester/,maximum of 6)A student participates for at least 100 hours in an internship with an agency or company that focuses on communication of weather fore
METEO 495B	Meteorology Private Sector Internship 3 Credits/Maximum of 6	METEO 495B Meteorology Private Sector Internship (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship with a private sector company that focuses on problems or applications that us
METEO 495C	Meteorological Operations Internship 3 Credits/Maximum of 6	METEO 495C Meteorological Operations Internship (3 per semester/maximum of 6) A student participates for at least 100 hours in an internship in an operational setting that focuses on the creation of time-sensitive meteor
METEO 495D	Meteorological International Internship 3 Credits/Maximum of 6	METEO 495D Meteorological International Internship (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship in an international setting that focuses on applying meteorological knowledge.
METEO 495E	Meteorological Off-Campus Research Internship 3 Credits/Maximum of 6	METEO 495E Meteorological Off-Campus Research Internship (3 per semester/maximum of 6)A student participates for at least 100 hours in an internship whose focus is a research project requiring applications of meteorolo
METEO 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
METEO 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
METEO 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
METEO 499	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
MICRB 106	Elementary Microbiology 3 Credits	A survey course in microbiology for non-majors, this course focuses on the roles of microbes in human health and disease, agriculture, biotechnology, and other areas of societal impact. Topics include the mechanisms and n
MICRB 107	Elementary Microbiology Laboratory 1 Credits	MICRB 107 is an introductory laboratory course designed for students who do not intend to pursue further study in the field. The course demonstrates the use and practice importance of microbes in everyday life. Instruction

MICRB 150	Introductory Medical Laboratory Technology 4 Credits	Introduction to basic principles and procedures of clinical laboratory work. Practicum emphasizes proper collection, handling, and preparation of biological samples.
MICRB 151A	Clinical Chemistry for Medical Laboratory Technicians 5 Credits	Basic principles and procedures for measuring chemical components of blood and other body fluids. MICRB 151A Clinical Chemistry for Medical Laboratory Technicians (5) This course is taken with (or before) MICRB 151D -
MICRB 151B	Hematology for Medical Laboratory Technicians 5 Credits	Blood cell identification and analysis. Related procedures for diagnosing normal or disease states of blood cells and coagulation. MICRB 151B Hematology for Medical Laboratory Technicians (5) This course is taken with (or
MICRB 151C	Immunohematology and Serology for Medical Laboratory Technicians 4 Credits	Antigen-antibody interactions of diagnostic importance. Immunologic principles and procedures necessary for the transfusion of blood products. This course is taken with (or before) MICRB 151F - Immunohematology Practic
MICRB 151D	Clinical Chemistry Practicum 2 Credits	Supervised experience at affiliated clinical laboratory. Focus is on the practical application of clinical chemistry procedures. Phlebotomy. MICRB 151D Clinical Chemistry Practicum (2) This clinical practicum enables the 2ML
MICRB 151E	Hematology Practicum 2 Credits	Supervised experience at affiliated clinical laboratory. Focus is on the practical application of hematology and coagulation procedures. MICRB 151E Hematology Practicum (2) This clinical practicum enables the 2MLT studer
MICRB 151F	Immunohematology Practicum 2 Credits	Supervised experience at affiliated clinical laboratory. Focus is on the practical application of immunohematology procedures. MICRB 151F Immunohematology Practicum (2) This clinical practicum enables the 2MLT student
MICRB 151G	Clinical Microbiology and Body Fluids Practicum 2 Credits	Supervised experience at affiliated clinical laboratory. Focus is on the practical application of microbiology procedures and body fluid analysis. MICRB 151G Clinical Microbiology and Body Fluids Practicum (2) This clinical p
MICRB 151W	Clinical Microbiology and Body Fluid Analysis for Medical Laboratory Technicians 5 Credits	This course is taken with (or before) MICRB 151G - Clinical Microbiology and Body Fluids Practicum. Topics include: analysis of urine and body fluids; tests of renal function; collection of patient specimens; cultivation, identif
MICRB 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MICRB 201	Introductory Microbiology 3 Credits	Elementary principles of microbial and viral structure, reproduction, genetics and physiology; relationship to food, water, soil, industrial and disease processes. MICRB 201 Introductory Microbiology (3) MICRB 201, Introducto
MICRB 201H	Introductory Microbiology 3 Credits	Elementary principles of microbial and viral structure, reproduction, genetics and physiology; relationship to food, water, soil, industrial and disease processes. MICRB 201H Introductory Microbiology (3) MICRB 201H, Introd
MICRB 202	Introductory Microbiology Laboratory 2 Credits	The goal of MICRB 202 is to inspire excitement and enthusiasm for the important science of microbiology, and to provide students with foundational knowledge of how microbiology techniques can be used to study key aspe
MICRB 203	Inquiry-based Microbiology Laboratory 2 Credits	In this course, students learn the scientific method and important microbiological concepts and techniques by designing and executing experiments. Through a series of experimental modules, students will practice and hone
MICRB 251	Molecular and Cell Biology I 3 Credits	BMB 251 Molecular and Cell Biology I (3) is an introduction to the fundamental principles of molecular and cellular biology, with a primary focus on eukaryotic cells. Topics covered will include elementary biochemistry; structu
MICRB 252	Molecular and Cell Biology II 3 Credits	Continuation of BMB 251 / MICRB 251 ; cytoskeleton, cell growth, division, adhesion, signalling, germ cells, differentiation, immune system, nervous system, plant cells. BMB 252 / MICRB 252 Molecular and Cell Biology II (3
MICRB 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
MICRB 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MICRB 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MICRB 401	Microbial Physiology and Structure 3 Credits	Physiology and structure of bacteria important in microbiological research. Designed for science majors.
MICRB 405A	Seminar and Practicum in Medical Technology 8 Credits	Chemistry. Fundamental principles and the quantitative measurement of chemical components in the blood and other body fluids.
MICRB 405B	Seminar and Practicum in Medical Technology 1 Credits	Urinalysis. Identification of cellular and noncellular urinary sediments. Qualitative chemical analysis of urine.
MICRB 405C	Seminar and Practicum in Medical Technology 6 Credits	Hematology. Principles of red and white blood cell development. Identification of normal and pathological conditions.
MICRB 405D	Seminar and Practicum in Medical Technology 5 Credits	Immunohematology. Immunologic and genetic principles governing the transfusion of blood and blood products.
MICRB 405E	Seminar and Practicum in Medical Technology 7 Credits	Microbiology. Identification of normal and abnormal microbial flora from various locations on and within the human body.
MICRB 405F	Seminar and Practicum in Medical Technology 3 Credits	Serology-Immunology. Immunological principles and their application in the identification of present or past disease states of the human.
MICRB 408	Laboratory Instructional Practice 1-2 Credits/Maximum of 2	Participation in the instruction of undergraduate laboratory courses, including classroom preparation; discussion of principles and objectives of each exercise.
MICRB 410	Principles of Immunology 3 Credits	The MICRB 410 / VBSC 410 Theories of immunity (3cr.) course provides a basic foundation in immunology with a focus on the progression from antigen recognition and innate immune responses to the development of acqui
MICRB 411	Survey of Microbiology Literature 1 Credits/Maximum of 99	An introduction to readings and oral presentations in microbiology.
MICRB 412	Medical Microbiology 3 Credits	Characteristics, methods of identification, and pathogenesis of bacteria that cause human disease; principles of disease dynamics and control.
MICRB 415	General Virology: Bacterial and Animal Viruses 3 Credits	The interaction of different types of viruses with bacterial and animal cells, including mechanisms of infection and viral synthesis. MICRB 415 General Virology: Bacterial and Animal Viruses (3) General Virology: Bacterial and
MICRB 416	Microbial Biotechnology 3 Credits	The overall goal of Microbial Biotechnology (3 cr.) is to provide students with an opportunity to apply their knowledge of microbiology and biotechnology to the synthesis of biologically important and industrially useful produc
MICRB 421W	Laboratory of General and Applied Microbiology 3 Credits	Laboratory exercises demonstrating fundamental techniques and principles of experimentation of general and applied microbiology.
MICRB 422	Medical Microbiology Laboratory 2 Credits	Advanced level microbiology laboratory course centered on medically important microorganisms including bacteria, fungi and parasites. Course content covers pathology and current techniques for identification of each micr
MICRB 432	Advanced Immunology: Signaling in the Immune System 3 Credits	The study of signaling pathways that regulate the immune response. BMB 432 / MICRB 432 / VBSC 432 Advanced Immunology: Signaling in the Immune System (3)This course will use the immune system as a model in whic
MICRB 435	Viral Pathogensis 3 Credits	Viral Pathogenesis provides students with a general knowledge of medically relevant viruses, with a specific focus on important human viral pathogens. The course is meant to help students understand how viruses cause dis
MICRB 447	Laboratory in Molecular Immunology 1 Credits	Immunology laboratory course that centers on current molecular techniques that utilize immunological compenents. Students will learn to purify and label antibodies, detect antigens and titer antibodies. Example techniques
MICRB 450	Bacterial Genetics 3 Credits	Emphasis will be on the role of mutations in the analysis of gene function; a detailed analysis of replication, transcription, translation, recombination and DNA repair. The course will also delve into the mechanisms involved in
MICRB 460	Cell Growth and Differentiation 3 Credits	Mechanisms and regulation of protein trafficking, organelle biosynthesis, cell development, signaling and cell cycle control. Emphasizes experimental design and analysis. BMB 460 / MICRB 460 Cell Growth and Differentiatio
MICRB 480	Cancer Development and Progression 3 Credits	BMB 480 / MICRB 480 Cancer Development and Progression (3) explores how cancer initiates and progresses with a focus on the interactions between tumor cells and normal tissues in the body. The goal of the course is to
MICRB 496	Independent Studies 1-18 Credits/Maximum of 18	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MICRB 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MICRB 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MNPR 301	Elements of Mineral Processing 3 Credits	Introduction to mineral process engineering. Sampling, sizing, comminution, physical and chemical processes, applications to industrial practice. Pollution control.
MNPR 401	Mineral Process Engineering 3 Credits	Unit operations for processing particulate materials: comminution, screening, classification, slurry pumping, thickening, filtration, etc.; application to mineral processing plant design.
MNPR 401H	Mineral Process Engineering 3 Credits	Unit operations for processing particulate materials: comminution, screening, classification, slurry pumping, thickening, filtration, etc.; application to mineral processing plant design.
MNPR 413	Mineral Processing Laboratory 1 Credits	A laboratory study of the chemical and physical principles involved in practical mineral processing operations.
MNPR 426	Aqueous Processing 3 Credits	A study of the chemical and engineering principles pertinent to metal processing in aqueous systems: hydrometallurgical extraction, plating, materials preparation. MATSE (MN PR) 426 Aqueous Processing (3) This 3-credit
MNPR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MNPR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MNG 230	Introduction to Mining Engineering 3 Credits	Examination, development, and exploitation of mineral deposits; mining methods; unit operations; mining equipment; fundamentals of explosives.
MNG 302	Mine Electrical Systems 3 Credits	The infrastructure of mines includes power systems, communication and tracking systems, and monitoring systems. Larger surface and underground mines often have power systems of similar size and complexity to a large
MNG 331	Rock Mechanics 3 Credits	Ground stresses, laboratory rock properties, laboratory and field instrumentation, rock mass characteristics, subsidence, slope stability, design of mine workings. MNG 331 Rock Mechanics (3) This course was designed to i
MNG 401	Introduction to Mining Operations 1 Credits	The mining industry consists of various stages of prospecting, exploration, beneficiation, development, and processing of naturally occurred solid minerals. These minerals include both metals (copper, iron, zinc, etc.) and nor
MNG 404	Mine Materials Handling Systems 2 Credits/Maximum of 2	The objective of this course is to provide students with the basic principles and methodology involved in design of material handling systems used in the mining industry. The course will cover various types of material handlir
MNG 410	Underground Mining 3 Credits	Underground mine design; extraction techniques; description of auxiliary operations as they relate to the mining methods. MNG 410 Underground Mining (3) The purpose of this course is to describe the logic and discuss the
MNG 410H	Underground Coal Extraction 2 Credits	Underground coal-mine design; extraction techniques; description of the various auxiliary operations as they relate to the mining methods.
MNG 411	Mine Systems Engineering 2 Credits	This course is aimed at applying operations research and systems methods for decision making in mine operations to improve productivity. The course is designed to introduce the student to the subject of applied operations

MNG 412	Mineral Property Evaluation 3 Credits	Ore reserve estimation using statistics and geostatistics, mine cost estimation, engineering economy concepts applied to mineral deposits. Students are prepared for a comprehensive understanding of how a resource or res
MNG 422	Mine Ventilation and Air Conditioning 3 Credits	The objective of this course is to develop for students a thorough understanding and working knowledge of the health, safety, legal, economic, and reliability aspects of mine ventilation and air conditioning systems and their
MNG 441	Surface Mining Systems and Design 3 Credits	Design of surface mining for non-coal and coal minerals, emphasis on open pit, quarry and strip mining planning parameters: unit operations, systems, haul roads, draglines, spoil stability, reclamation, legal requirements, and
MNG 451W	Mining Engineering Project 1-5 Credits/Maximum of 5	Independent and integrative design and report of specific mine evaluation, layout, equipment selection, environmental control, permitting, and financial analysis.
MNG 494H	Thesis Research 1-6 Credits/Maximum of 6	Independent research under the supervision of the Mining Engineering program.
MNG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MNG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given on a topical or special interest subject which may be offered infrequently; several different topics may be taught in one year or term.
MNGT 110	Mining Administration and Law 3 Credits	Introduction to mine organization and management structure, and government regulations regarding permitting, reporting and recordkeeping. MNG T 110 Mining Administration and Law (3) 'Mining Administration and Law' is
MNGT 204	Mine Plant Technology 3 Credits	Electrical, transportation, ventilation, and other systems required to operate underground coal mine, and to transport and process coal.
MNGT 205W	Mining Systems Technology 3 Credits	Comparison of mining methods with focus on preventative maintenance, coal transport, and estimating production and manpower needs. MNG T 205W Mining Systems Technology (3) Review of the impact of various metho
MNGT 207	Electric Mine Machine Circuits 3 Credits	Application of electric power and safety issues related to the installation and maintenance of circuits and various power control devices. MNG T 207 Electric Mine Machine Circuits (3) 'Electric Mine Machine Circuits' is a four
MNGT 208	Mine Power Distribution 3 Credits	Topics of high voltage curcuits, underground transmission, power stations, power conversion, safety regulations and power devices. MNG T 208 Mine Power Distribution (3) 'Mine Power Distribution' is a fourth semester cou
MNGT 209	Mine Machinery Control Methods 2 Credits	Basic principles and applications of solid state, variable frequency, PLC, electro hydraulic and networked controls in mine machinery. MNG T 209 Mine Machinery Control Methods (2) 'Mine Machinery Control Methods' is a t
MNGT 210	Mine Machine Dynamics 3 Credits	Operation and interaction of mechanized equipment used at the coal face including common electrical, hydraulic and mechanical systems.
MNGT 211	Practicum in Mining Technology 3 Credits	Field and shop techniques in procedures of electrical, mechanical and ventilation phases of mine maintenance MNG T 211 Practicum in Mining Technology (3) 'Practicum in Mining Technology' is a fourth semester course th
MNGT 214	Mining Management I 3 Credits	Leadership skill development for supervisors, managing change, tools to plan, organize, control, communicate and monitor effectively. MNG T 214 Mining Management I (3) 'Mine Management I' will provide students with the
MNGT 216	Mine Regulations and Laws 3 Credits	State and federal mining regulations and application to underground coal mines. Relationship with company policies and consequences of non-compliance. MNG T 216 'Mine Regulations and Laws' (3) 'Mine Regulations an
MUSIC 4	Film Music 3 Credits	An introductory examination of music's role in Hollywood narrative film from the classic era (1930s and 1940s) to the present. MUSIC 4 Film Music (3) (GA)The course examines the role of music in narrative film, the premier a
MUSIC 5	An Introduction to Western Music 3 Credits	MUSIC 5 is a course on listening, with emphasis on the relationship between musical style and historical context. Students will learn the basic skills of informed music-listening: how to hear and describe melody (phrase struc
MUSIC 7	Evolution of Jazz 3 Credits	Study of the origins and development of jazz as an art form. MUSIC 7 Evolution of Jazz (3) (GA;US)(BA) This course meets the Bachelor of Arts degree requirements. Evolution of Jazz is a course designed to examine the hist
MUSIC 8	Rudiments of Music 3 Credits	Introduction to the elements of music: notation, scales, meter, rhythm, intervals; basic chord structure, cadences. MUSIC 8 Rudiments of Music (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Learn
MUSIC 8H	Rudiments of Music 3 Credits	Introduction to the elements of music: notation, scales, meter, rhythm, intervals; basic chord structure.
MUSIC 9	Introduction to World Musics 3 Credits	This course introduces students to the study of world music as a cultural phenomenon through an examination of the music of Asia, Africa, West Asia, the Americas, and European folk. The course begins with an introduction
MUSIC 11	Under the Hood: How Classical Music Works 3 Credits	This course examines selected works from twenty of the greatest composers of western art music, with emphasis on the baroque, classical and romantic eras. The curriculum combines aspects of two existing courses, Rudi
MUSIC 40	First-Year Seminar in Music 1 Credits	MUSIC 040 First-Year Seminar in Music (1) (BME, BM, BMA, BA). This course is offered to all music majors during their first semester. The goals of this seminar are 1) to engage students in learning and orient them to the sch
MUSIC 50	Beginning Piano: Non-Music Major 1 Credits	Introduction to the keyboard, notation, chord progressions, transposition, improvisation, and simple accompanying techniques for the non-music major. An additional fee is required for this course. MUSIC 050 Beginning Pian
MUSIC 51	Intermediate Class Piano: Non-Music Major 1 Credits	Music 51 is course designed to provide the intermediate non-music major student with strategies for developing some of the advanced skills required for playing the piano. Some knowledge of music or piano is assumed and
MUSIC 52	Voice Class: Non-Music Major 1 Credits	Group study emphasizing development of rudimentary skills and their recreational use in a range of popular and art music. MUSIC 052 Voice Class: Non-Music Major (1) (GA)(BA) This course meets the Bachelor of Arts degre
MUSIC 54	Beginning Class Guitar: Non-Music Major 1 Credits	Class instruction in guitar for non-music majors. MUSIC 54 Beginning Class Guitar: Non-Music Major (1) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course provides opportunity to explore vari
MUSIC 76	Chamber Orchestra 1 Credits/Maximum of 8	Chamber orchestra rehearsal and performance.
MUSIC 77	Philharmonic Orchestra 1 Credits/Maximum of 8	Orchestra rehearsal and performance. MUSIC 77 Philharmonic Orchestra (1 per semester/maximum of 8 (GA)(BA) This course meets the Bachelor of Arts degree requirements. The Philharmonic Orchestra is an auditioned ins

MUSIC 78	Symphonic Wind Ensemble 1 Credits/Maximum of 8	Rehearsal and performance of wind repertoire and concert band literature. MUSIC 78 Symphonic Wind Ensemble (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The go
MUSIC 79	Pep Band 1 Credits/Maximum of 8	Rehearsal and performance of appropriate music and choreography for athletic events. MUSIC 79 Pep Band (1 per semester/maximum of 8) (GA) This course develops the instrumental performance skills of class members w
MUSIC 80	Symphonic Band 1 Credits/Maximum of 8	Rehearsal and performance of wind repertoire and concert band literature. MUSIC 80 Symphonic Band (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this
MUSIC 81	Marching Blue Band 1 Credits/Maximum of 4	Rehearsal and performance of appropriate music and maneuvers for football games and related events. MUSIC 81 Marching Blue Band (1 per semester/maximum of 4) (GA)(BA) This course meets the Bachelor of Arts degre
MUSIC 82	Concert Band 1 Credits/Maximum of 8	Rehearsal and performance of concert band literature. MUSIC 82 Concert Band (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of the course are to develop th
MUSIC 83	Campus Band 1 Credits/Maximum of 8	Rehearsal and performance of concert band literature. MUSIC 83 Campus Band (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of the course are to develop tl
MUSIC 84	Jazz Ensemble 1 Credits/Maximum of 8	Survey and performance of historic and contemporary big band styles. MUSIC 84 Jazz Ensemble (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. MUSIC 84, Jazz Ensem
MUSIC 86	Percussion Ensemble 1 Credits/Maximum of 8	Study and performance of percussion chamber music in various instrumental combinations, focusing on the classical and contemporary repertoire. MUSIC 86 Percussion Ensemble (1 per semester/maximum of 8) (GA)(BA) Tl
MUSIC 87	Mallet Ensemble 1 Credits/Maximum of 8	Study and performance of music for keyboard percussion instruments.
MUSIC 88	Campus Choir 1 Credits/Maximum of 8	Building skills needed for successful choral singing including vocal production, sight singing, ear training, and music fundamentals. MUSIC 88 Campus Choir (1) (GA)(BA) This course meets the Bachelor of Arts degree require
MUSIC 89	University Choir 1 Credits/Maximum of 8	Rehearsal and performance of choral repertoire appropriate to mixed-voice ensemble. MUSIC 89 University Choir (1 per semester/maximum of 8) (GA)(BA) meets the Bachelor of Arts degree requirements. The choir participa
MUSIC 90	Glee Club 1 Credits/Maximum of 8	Rehearsal and performance of music composed for lower voices from the sixteenth to the twentieth centuries, including sacred and secular compositions. MUSIC 90 Glee Club (1 per semester/maximum of 8) (GA)(BA) This c
MUSIC 91	Oriana Singers 1 Credits/Maximum of 8	Rehearsal and performance of choral repertoire for treble voices from the sixteenth to twentieth centuries, including sacred and secular compositions. MUSIC 091 Oriana Singers (1.0 per semester/maximum of 8) (GA)(BA) Th
MUSIC 92	Chamber Music for Voices 1 Credits/Maximum of 8	Select groups of singers performing choral chamber music. MUSIC 92 Chamber Music for Voices (3) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Chamber Music for Voices is a course which include
MUSIC 93	Essence of Joy 1 Credits/Maximum of 8	Rehearsal and performance of choral repertoire from the African/American tradition. MUSIC 093 Essence of Joy (3) (GA;US;IL)(BA) This course meets the Bachelor of Arts degree requirements. Essence of Joy is a highly sele
MUSIC 94	Women's Chorale 1 Credits/Maximum of 8	Rehearsal and performance of treble choral literature. MUSIC 094 Women's Chorale (1.0 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Women's Chorale is the largest tre
MUSIC 98	Special Topics 1 Credits/Maximum of 8	Vocal Dimensions is a vocal jazz ensemble that performs challenging modern and classic jazz repertoire, both a cappella and accompanied by a rhythm section.
MUSIC 100	Campus Orchestra 1 Credits/Maximum of 10	Rehearsal and performance orchestral literature. MUSIC 100 Campus Orchestra (1-10) (BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to develop the instrumental performing sl
MUSIC 101	Music Common Hour 1 Credits	Student and faculty recitals, master classes, lectures by faculty and guests, and Common Hour attendance.

MUSIC 103	Concert Choir 1 Credits/Maximum of 8	Rehearsal and performance of choral repertoire appropriate to mixed-voice ensemble of approximately forty-five voices. MUSIC 103 Concert Choir (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of
MUSIC 104	Chamber Singers 1 Credits/Maximum of 8	Rehearsal and performance of choral repertoire appropriate to mixed-voice ensemble of approximately twenty-four voices. MUSIC 104 Chamber Singers (1 per semester/maximum of 8) (GA)(BA) This course meets the Bach
MUSIC 106	Early Music Ensemble 1 Credits/Maximum of 8	Ensemble for the performance and study of Baroque or early music on instruments of the era. MUSIC 106 Early Music Ensemble (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requir
MUSIC 109	The Music of the Beatles 3 Credits	The Beatles are the most significant musical group in the history of popular music. Their songs are derived from diverse sources, such as rhythm and blues, country and western, rockabilly, rock and roll, Motown, soul, folk ro
MUSIC 110	Keyboard Skills I: Music Major 1 Credits	Introduction to the keyboard, chord progressions, transposition, improvisation, and simple accompanying techniques.
MUSIC 112	Guitar Techniques I 0.5 Credits	Performance and teaching techniques for guitar. MUSIC 112 Guitar Techniques I (.5)(BA) This course meets the Bachelor of Arts degree requirements. MUSIC 112 is offered for students who are tracking acceptance into the
MUSIC 113	Music Theatre--Class Voice I 1 Credits	Group study emphasizing development of sound vocal and musicianship skills fundamental for music theatre. This class is designed for freshman BFA Musical Theatre majors and freshman BFA Acting majors and is the start
MUSIC 114	Music Theatre--Class Voice II 1 Credits	Group study emphasizing development of sound vocal and musicianship skills fundamental for music theatre.
MUSIC 115	Beginning Voice Class 1 Credits	Class voice emphasizing the fundamentals of healthy singing technique. For Music Majors only. MUSIC 115 Beginning Voice Class (1) Intended for instrumental music education majors. Introduces instrumental music educa
MUSIC 116	Intermediate Voice Class 1 Credits/Maximum of 4	Class voice, emphasizing pedagogical experiences and techniques for public school music classrooms. For Music Majors only.
MUSIC 119	First-Year Music Seminar 2 Credits	Individual applied instruction and group activities; orientation, area recitals, and studio classes as required by instructor.
MUSIC 121	Basic Musicianship I 1 Credits	Elementary sight singing and dictation.
MUSIC 122	Basic Musicianship II 1 Credits	Continuation of Music 121.
MUSIC 127	Introduction to Music Technology 1 Credits	Course Content and Expectations: Introduction to Music Technology is a coursed designed for freshman or first-year students in the BA Music Technology, BFA Sound Design, or BM Music Composition degree programs at
MUSIC 129S	First-Year Performance Seminar 3 Credits	Individual applied instruction and group activities; orientation, area recitals, and studio classes as required by instructor.
MUSIC 131	Music Theory I 2 Credits	Review of rudiments; introduction to the fundamental linear and vertical features of tonal music, integration of written and aural skills.
MUSIC 132	Music Theory II 2 Credits	Continuation of Music 131.
MUSIC 151	Brass Techniques I 1 Credits	Introduction to basic performance techniques on brass instruments; teaching strategies and materials for use in a heterogeneous instrument setting. MUSIC 151 Brass Techniques I (1)(BA) This course meets the Bachelor of
MUSIC 152	Percussion Techniques I 1 Credits	Introduction to basic performance techniques on percussion instruments; teaching strategies and materials for use in a heterogeneous instrument setting. MUSIC 152 Percussion Techniques I (1)(BA) This course meets the B
MUSIC 153	String Techniques I 1 Credits	Performance techniques on stringed instruments for music education majors. MUSIC 153 String Techniques I (1)(BA) This course meets the Bachelor of Arts degree requirements. This course is required for students working
MUSIC 154	Woodwind Techniques I 1 Credits	Performance and teaching techniques for woodwind instruments. MUSIC 154 Woodwind Techniques I (1)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed for students pursuing a deg
MUSIC 162	Introduction to Music History 2 Credits	An introduction to the discipline of music history through the study of representative works. MUSIC 162 Introduction to Music History (2) This course introduces students to the discipline of music history, through study of the
MUSIC 170	Keyboard Skills II: Music Major 1 Credits	Instruction in secondary chord progressions, transposition, improvisation, accompanying techniques, simple score reading.
MUSIC 173	First-Year Composition Seminar 2 Credits	Individual composition instruction for freshman composition majors (Fall semester) and group activities.
MUSIC 174	Composition II 2 Credits	Composition instruction for first-year composition majors.
MUSIC 177	ROARS lab 1-3 Credits/Maximum of 9	ROARS (Research of the Arts, Recording, and Sound) lab is a place to do individualized work with students on their areas of focus in music technology and for music technology students as a whole to learn from one another
MUSIC 181	Jazz Improvisation I 2 Credits	A study of the fundamentals of jazz theory, harmonic functions, and their applications to jazz improvisation.
MUSIC 182	Jazz Improvisation II 2 Credits	A study of advanced harmonic concepts and their application to jazz improvisation.
MUSIC 188	Chamber Music for Mixed Ensemble 1 Credits/Maximum of 8	MUSIC 188 Chamber Music for Mixed Ensemble (maximum of 8) (BA). This course is designed to prepare and perform mixed ensemble music from all periods and styles (e.g., piano quintet, rock ensemble, early music ensem
MUSIC 189	Studio Ensemble 1 Credits/Maximum of 8	Preparation and performance of music for like-instrument ensembles such as Clarinet Ensemble, Saxophone Ensemble, Cello Choir, Horn Ensemble, etc. Development of rehearsal and ensemble skills, an increased awarenes
MUSIC 190	Chamber Music for Strings 1 Credits/Maximum of 8	Preparation for performance of chamber music literature involving string instruments. MUSIC 190 Chamber Music for Strings (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requireme
MUSIC 191	Chamber Music for Woodwinds 1 Credits/Maximum of 8	Preparation for performance of chamber music literature involving woodwind instruments. MUSIC 191 Chamber Music for Woodwinds (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree r
MUSIC 192	Chamber Music for Brass 1 Credits/Maximum of 8	Preparation for performance of chamber music literature involving primarily brass instruments. MUSIC 192 Chamber Music for Brass (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree re
MUSIC 193	Sonata Duos 1 Credits/Maximum of 8	Preparation for performance of advanced sonata literature for various individual instruments with keyboard.
MUSIC 194	Studio and Recital Accompanying 1 Credits/Maximum of 8	Keyboard accompaniment of student soloists in the studio and in public performance under faculty supervision.
MUSIC 197	**SPECIAL TOPICS** 1 Credits	No description
MUSIC 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MUSIC 207N	Jazz and the African American Experience 3 Credits	The history and evolution of jazz is a significant cultural manifestation of the African American experience. The music and its artists provide a lens through which to examine questions surrounding the African American experi

MUSIC 209N	The Music of the Beatles and American Popular Culture 3 Credits	The Beatles are the most significant musical group in the history of popular music. Their songs are derived from diverse sources, such as rhythm 'n' blues, rock 'n' roll, country 'n' western, Motown, soul, folk music, folk rock,
MUSIC 210	Keyboard Skills III: Music Major 1 Credits	Playing accompaniments from chord symbols and full notation, transposition, improvisation, modulation, score-reading, and standard literature.
MUSIC 212	Guitar Techniques II 1 Credits	Intermediate performance and teaching techniques for guitar. MUSIC 212 Guitar Techniques II (1) MUSIC 212 is offered as an Individual Emphasis course for students who have been accepted into the Teacher Education De
MUSIC 215	The Craft of Singing 3 Credits	Vocal/respiratory anatomy and function, vocal health, voice classification, and techniques that enhance and develop acting and movement from the singer perspective. Anatomy of the larynx and respiratory system are studie
MUSIC 221	Basic Musicianship III 1 Credits	Intermediate sight singing and dictation.
MUSIC 222	Basic Musicianship IV 1 Credits	Continuation of Music 221.
MUSIC 231	Music Theory III 2 Credits	Intermediate concepts of tonal theory.
MUSIC 240	Introduction to Music Education 2 Credits	MUSIC 240 Introduction to Music Education (2)(BA)This course meets the Bachelor of Music Education degree requirements. MUSIC 240 is offered every fall semester for students who are considering the Teacher Certificatio
MUSIC 241	Music for Classroom Teachers 3 Credits	Development of competencies for guiding musical experiences of children in the elementary classroom.
MUSIC 251A	Brass Techniques II: Trumpet 0.5 Credits	A class setting in which trumpet performance techniques, teaching/diagnostic strategies, instructional materials, and literature are taught, practiced, and developed. MUSIC 251A Brass Techniques II: Trumpet (.5) This course
MUSIC 251B	Brass Techniques II: Horn 0.5 Credits	A class setting in which horn performance techniques, teaching/diagnostic strategies, instructional materials, and literature are taught, practiced, and developed. MUSIC 251B Brass Techniques II: Horn (.5) This course devel
MUSIC 251C	Brass Techniques II: Trombone 0.5 Credits	A class setting in which trombone performance techniques, teaching/diagnostic strategies, instructional materials, and literature are taught, practiced, and developed. MUSIC 251C Brass Techniques II: Trombone (.5) This co
MUSIC 251D	Brass Techniques II: Euphonium/Tuba 0.5 Credits	A class setting in which euphonium and tuba performance techniques, teaching/ diagnostic strategies, instructional materials, and literature are taught, practiced, and developed. MUSIC 251D Brass Techniques II: Euphoniu
MUSIC 253	String Techniques II 0.5-1 Credits/Maximum of 2	Performance techniques on violin, viola, cello or string bass for music education majors. MUSIC 253 String Techniques II (0.5 - 1 per semester/maximum of 2) This course is recommended for students working toward the Ba
MUSIC 254A	Woodwind Techniques II: Flute 0.5 Credits	Performance and teaching techniques and materials selection for flute. MUSIC 254A Woodwind Techniques II: Flute (.5) This course is intended for music majors working toward the Teacher Education Degree Program in Mu
MUSIC 254B	Woodwind Techniques II: Oboe 0.5 Credits	Performance and teaching techniques and materials selection for oboe. MUSIC 254B Woodwind Techniques II: Oboe (.5) This course is intended for music majors working toward the Teacher Education Degree Program in M
MUSIC 254C	Woodwind Techniques II: Clarinet 0.5 Credits	Performance and teaching techniques and materials selection for clarinet. MUSIC 254C Woodwind Techniques II: Clarinet (.5) This course is intended for music majors working toward the Teacher Education Degree Program
MUSIC 254D	Woodwind Techniques II: Saxophone 0.5 Credits	Performance and teaching techniques and materials selection for saxophone. MUSIC 254D Woodwind Techniques II: Saxophone (.5) This course is intended for music majors working toward the Teacher Education Degree P
MUSIC 254E	Woodwind Techniques II: Bassoon 0.5 Credits	Performance and teaching techniques and materials selection for bassoon. MUSIC 254E Woodwind Techniques II: Bassoon (.5) This course is intended for music majors working toward the Teacher Education Degree Progra
MUSIC 261	Survey of Music History I 3 Credits	The course is a survey of music history from antiquity through the Baroque period, with readings, listening, and lecture. The principal objectives are: to acquaint students with important musical works from this period of Europ
MUSIC 262	Survey of Music History II 3 Credits	The course is a survey of music history from ca. 1750 to the present, with readings, listening, and lecture. The principal objectives are: to acquaint students with important musical works from this period of European and Ame
MUSIC 262H	Survey of Music History II 3 Credits	A survey of music history from 1750 to the present, with readings, listening, and lecture.
MUSIC 266	Basic Conducting 1 Credits	Basic instruction and practicum in conducting, both choral and instrumental.
MUSIC 267	Techniques of Composition 2 Credits	Basic instruction in the techniques of composition in all idioms.
MUSIC 270	Keyboard Skills IV: Music Major 1 Credits	Instruction in secondary chord progressions, transposition, improvisation, accompanying techniques, score reading.
MUSIC 273	Composition III 2 Credits	Composition instruction for second-year composition majors.
MUSIC 274	Composition IV 2 Credits	Composition instruction for second-year composition majors.
MUSIC 295A	Early Field Experience in Music Education 1 Credits/Maximum of 1	MUSIC 295A Early Field Experience in Music Education (1)(BA) This course meets the Bachelor of Arts degree requirements. This course is offered to music majors during their fourth semester who are intending to apply to th
MUSIC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MUSIC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MUSIC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
MUSIC 312	Performance of Diverse Musical Styles 1 Credits	Exploration of world instruments and singing through performance and study. MUSIC 312 Performance of Diverse Musical Styles (1) The focus of the course is participation in a non-Western based music ensemble to gain ku
MUSIC 325	Music Entrepreneurship 3 Credits	This course teaches students how to use entrepreneurship as a tool in service to their career goal of becoming a music professional. For students who create their own music in some capacity (composing, arranging, perform
MUSIC 331	Tonal Analysis 2 Credits	Introduction to standard procedures of tonal analysis, including concepts of form and structure.
MUSIC 332	Analysis of Twentieth Century Music 2 Credits	Application of analytical techniques and compositional theories to music of the twentieth century.
MUSIC 336	Orchestration 2 Credits	Scoring for the orchestra.
MUSIC 341	Instructional Materials in Music 2 Credits	Exploration of instructional materials and repertoire for use in K-12 music settings. Limited to Music Education majors who have been accepted into the Teacher Education Degree Program in Music. MUSIC 341 Instructional
MUSIC 341B	Instructional Practices in General Music 1.5 Credits	This course provides students with the opportunity to explore instructional materials and repertoire through in-class sessions and observation of Pre- K-12 teachers. Topics include: singing voices of children/youth, music liter
MUSIC 345	Instructional Practices in Music 2 Credits	For music education students to learn about instrucational techniques and practices for music performance and general music classes. MUSIC 345 Instructional Practices in Music (2) This course is designed to cover genera
MUSIC 366	Intermediate Conducting 1 Credits	Intermediate instruction in conducting; conducting techniques specific to instrumental or choral music; introduction to rehearsal technique. MUSIC 366 Intermediate Conducting (1)(BA) This course meets the Bachelor of Arts
MUSIC 373	Composition V 3 Credits	Composition instruction for third-year position majors.
MUSIC 374	Composition VI 3 Credits	Composition instruction for third-year composition majors.
MUSIC 387	Language Diction for Singers: Italian and English 1 Credits	Intensive drill in the pronunciation, phonetic transcription, and singing of Italian and English.
MUSIC 388	Language Diction for Singers: French 1 Credits	Intensive drill in the pronunciation, phonetic transcription, and singing of French.
MUSIC 389	Language Diction for Singers: German 1 Credits	Intensive drill in the pronunciation, phonetic transcription, and singing of German.
MUSIC 395	**SPECIAL TOPICS** 0.5-1 Credits	No description
MUSIC 395A	Cohort Practicum I 1 Credits/Maximum of 1	MUSIC 395A Cohort Practicum I (1)(BA) This course meets the Bachelor of Arts degree requirements. MUSIC 395A is offered for students who are tracking acceptance into the Teacher Education Degree Program in Music. S
MUSIC 395B	Cohort Practicum II 1 Credits/Maximum of 1	Observation and teaching experiences in a variety of musical instruction settings.
MUSIC 395C	Practicum in Music Teaching 1-5 Credits/Maximum of 5	Field experiences in music teaching for undergraduate music education majors.
MUSIC 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

MUSIC 400	Solo Recital 1 Credits	Required recital for Performer's Certificate.
MUSIC 404	Adv Chamber Singer 3 Credits/Maximum of 9	This course enables the participation of non-music majors in a choral ensemble at the 400 level. The course will meet concurrently with EITHER Music 089 or Music 104. The repertoire of the ensemble is selected from a wide
MUSIC 412	Jazz Pedagogy 2 Credits	The development of advanced skills in pedagogy for teaching jazz bands.
MUSIC 414	String Pedagogy 1-2 Credits/Maximum of 2	The development of skills in pedagogy for teaching strings.
MUSIC 415	Woodwind Pedagogy 1-2 Credits/Maximum of 2	The development of skills in pedagogy for teaching woodwinds.
MUSIC 416	Brass Pedagogy 1-2 Credits/Maximum of 2	The development of skills in pedagogy for teaching brass.
MUSIC 417	Percussion Pedagogy 1-2 Credits/Maximum of 2	The development of advanced skills in pedagogy for teaching percussion.
MUSIC 418	Voice Pedagogy 2 Credits	Analysis of techniques of teaching voice and studies of related music literature and pedagogical writings.
MUSIC 419	Piano Pedagogy I 2 Credits	Analysis of beginning teaching methods and teaching strategies for children.
MUSIC 420	Song Writing and Recording 3 Credits	Song composition, arranging and recording in a variety of style genres. MUSIC 420 Song Writing and Recording (3) This course will take the student through the process of composing and producing a recorded song. The cl
MUSIC 421	Jazz Combo Class 1 Credits/Maximum of 8	Study and performance of small group jazz.
MUSIC 422	Jazz Harmony and Arranging 3 Credits	Analysis and composition of jazz tunes and chord progressions; instrumental and vocal arranging in the jazz idiom.
MUSIC 424	Piano Pedagogy II 2 Credits	Analysis of techniques of teaching intermediate-early advanced level piano and studies of music literature and pedagogical writings.
MUSIC 425	Advanced Voice Pedagogy 2 Credits	Analysis of techniques of teaching voice, supervised teaching, studies of studio materials and related topics.
MUSIC 429	Aural Review for Graduate Students 1 Credits	An intensive review of the aural skills required for a theoretical understanding of 18th- and 19th-century music.
MUSIC 431	Advanced Tonal Analysis 2-3 Credits	Advanced techniques of musical analysis.
MUSIC 432	Graduate Review of Twentieth-Century Analysis 2-3 Credits/Maximum of 3	The theory and analysis of style in music of the twentieth century.
MUSIC 433	Advanced Analysis of Twentieth-Century Music 2-3 Credits	In-depth studies of selected twentieth-century repertoires and/or analytical models.
MUSIC 434	History of Electroacoustic Music 3 Credits/Maximum of 3	A HISTORY OF ELECTROACOUSTIC MUSIC AS A CONSEQUENCE OF DEVELOPMENTS IN CULTURE AND TECHNOLOGY FROM 1880 to PRESENT. HISTORY OF ELECTROACOUSTIC MUSIC (3) is an introduction to the
MUSIC 435	Score Reading 1 Credits	Introduction in score reading at the keyboard.
MUSIC 437	Music Information Retrieval and Computer-Assisted Music 3 Credits	Music Information Retrieval and Computer-Assisted Music have become quite important to electronic musicians recently and will increase in importance over time. The common threads that run through the topics of this cou
MUSIC 438	The Business of Music 1 Credits/Maximum of 1	This course is a survey of topics related to a career in classical music performance, private teaching, and educational institution teaching. These are the principal means by which the freelance musician earns a living. Topics i
MUSIC 441W	Emphasis in Elementary General Music 3 Credits	This course is intended for Music Education majors in their senior year who have particular interest in working with elementary school children in a general music or choral setting and will involve off-site practicum experience
MUSIC 442W	Emphasis in Secondary General Music 3 Credits	Emphasis in teaching in secondary general music settings. MUSIC 442W Emphasis in Secondary General Music (3) MUSIC 442W is offered to students who have been accepted into the Teacher Certification program in Mus
MUSIC 443W	Choral Emphasis in Secondary Music Education 3 Credits	MUSIC 443W Choral Emphasis in Secondary Music Education (3). This course meets the Bachelor of Music (Music Education) degree requirements. The course is intended to prepare pre-service teachers to teach secondary
MUSIC 444W	Emphasis in Elementary and Intermediate Band 3 Credits	Examination and application of teaching strategies and materials for students planning to teach band in the elementary and middle schools. MUISC 444W Capstone Experiences in Elementary and Intermediate Band (3)(BA)
MUSIC 445W	Emphasis in High School Band 3 Credits	Examination and application of teaching strategies and materials for students planning to teach high school bands. MUSIC 445W Capstone Experiences in High School Band (3) This course is intended to prepare pre-servic
MUSIC 446W	Emphasis in Strings and Orchestra 3 Credits	Development of teaching techniques for instructing elementary and secondary string/orchestra student musicians for music education majors. MUSIC 446W Capstone Experiences in Strings and Orchestra (3) This course is
MUSIC 450	Teaching Marching Band 2 Credits	Traditional and contemporary drill design principles, show development strategies, instructional techniques, and organizational procedures involved in teaching marching band. MUSIC 450 Teaching Marching Band (2)(BA) Th
MUSIC 451	Computer Programming for Musicians 3 Credits/Maximum of 12	In-depth study of music programming techniques. MUSIC 451 Computer Programming for Musicians (3 per semester/maximum of 12)This is an in-depth study of a given music programming language or environment. The la
MUSIC 452	Computer Music Synthesis 3 Credits	Use of sound synthesis software for music creation.
MUSIC 453	Recording Studio Training 1 Credits	Training in how to use a professional multi-track recording studio. MUSIC 453 Recording Studio Training (1)(BA) This course meets the Bachelor of Arts degree requirements. This is a course in recording studio engineering,
MUSIC 455	Technology in Music 1-3 Credits/Maximum of 3	Survey of how musical information is stored and processed in computer systems. MUSIC 455 Technology in Music (3)(BA) This course meets the Bachelor of Arts degree requirements. This course provides a survey of how r
MUSIC 458	Electronic Music Composition I 3 Credits	An introduction to the art of composition in the electronic audio medium. MUSIC 458 Electronic Music Composition (3)(BA) This course meets the Bachelor of Arts degree requirements. Music 458 will focus on the creative c
MUSIC 459	Electronic Music Composition II 3 Credits	Electronic Music Composition II is the second course of a two-semester sequence focused on composition for electronic media. The projects in this course focus on spatial and interactive aspects of computer music, in addi
MUSIC 460	Teaching Musical Cultures 2 Credits	Exploration of the world's musical cultures and the implication of and procedures for teaching multicultural music. Limited to upper division music majors or permission of program.
MUSIC 461W	Studies in Music History: Antiquity to 1600 3 Credits/Maximum of 6	In-depth study of selected aspects of music and culture from antiquity to 1600, with emphasis on writing and research.
MUSIC 462W	Studies in Music History: 1550-1750 3 Credits/Maximum of 6	In-depth study of selected aspects of music and culture from 1550-1750, with emphasis on writing and research.
MUSIC 463W	Studies in Music History: 1700-1900 3 Credits/Maximum of 6	In-depth study of selected aspects of music and culture from 1700-1900, with emphasis on writing and research.
MUSIC 464W	Studies in Music History: 1850-Present 3 Credits/Maximum of 6	In-depth study of selected aspects of music and culture from 1850 to the present, with emphasis on writing and research.
MUSIC 465	Advanced Conducting I 2 Credits	Advanced instruction in conducting; conducting techniques specific to instrumental or choral music; emphasis on score study and rehearsal technique.
MUSIC 466	Advanced Conducting II 2 Credits/Maximum of 8	Standard scores of symphonies, tone poems, operas, oratorios, and shorter vocal and instrumental works studied from the viewpoint of the conductor.
MUSIC 467	Opera Workshop 1-3 Credits/Maximum of 6	History, analysis, and production of operas from sixteenth century to present.
MUSIC 468	Acting for Singers 2 Credits/Maximum of 4	To help students develop authentic and specific characters/portrayals on stage through physical and emotional awareness. MUSIC 468 Acting for Singers (2) This is a course teaching singers the fundamentals of acting. All ty
MUSIC 472	Eighteenth-Century Counterpoint 2 Credits	Imitative and nonimitative counterpoint in the style of Bach.
MUSIC 473	Composition VII 3 Credits	Composition instruction for fourth-year composition majors.
MUSIC 474	Composition VIII 3 Credits	Composition instruction for fourth-year composition majors.
MUSIC 476W	B.A. Senior Project 3 Credits	A semester project appropriate to student's option in B.A. program (e.g., research paper, performance with program notes, or related paper).
MUSIC 478	Vocal Literature 3 Credits	Introduction to the literature for solo voice in opera, oratorio, cantata, art song, and chamber music from the baroque to the present.
MUSIC 480	Opera Literature 3 Credits	Studies in the development of the opera from 1600 to the present, treating both libretto and music.
MUSIC 481	Keyboard Literature 3 Credits	Studies in the development of keyboard music and instruments; a survey of all eras using listening, analysis, and performance.
MUSIC 483	Seminar in Voice Pedagogy 2 Credits	Survey of literature relevant to the teaching of voice from historical sources through recent pedagogical scholarship.
MUSIC 485	Chamber Music Literature 3 Credits	Survey of chamber music for strings, winds, and brass instruments from the mid-16th century to the present day.
MUSIC 487	Orchestral Literature 3 Credits	Survey of orchestral literature.
MUSIC 488	Studies in the Major Performance Area 1-2 Credits	Selected studies in music literature specific to the student's major performance area. Will include research, analysis and performance. MUSIC 488 Studies in the Major Performance Area (1-2) The objective of Music 488 is t
MUSIC 489	Studio and Recital Accompaniment 1 Credits/Maximum of 4	Advanced keyboard accompaniment of student soloists in the studio and in public performance under faculty supervision.
MUSIC 491	Advanced Chamber Ensemble 1 Credits/Maximum of 4	Preparation and performance of advanced chamber music. MUSIC 491 Advanced Chamber Ensemble (1 per semester/maximum of 4) Advanced Chamber Ensemble meets at least two hours per week - once with the instruc
MUSIC 493	Sonata Duos 1 Credits/Maximum of 4	Preparation for performance of advanced sonata literature for various individual instruments with keyboard.

MUSIC 494	Research Topics 1-3 Credits/Maximum of 6	Supervised research leading to senior thesis or project.
MUSIC 494H	Research Topics 1-3 Credits/Maximum of 6	Supervised research leading to senior thesis or project.
MUSIC 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
MUSIC 495A	Student Teaching: General Music 5-7 Credits/Maximum of 7	MUSIC 495A Student Teaching: General Music (6-8)(BA) This course meets the Bachelor of Arts degree requirements. As required by the Pennsylvania Department of Education, all music education students seeking certificat
MUSIC 495B	Student Teaching: Choral Music 5-7 Credits/Maximum of 7	MUSIC 495B Student Teaching: Choral Music (5-7)(BA) This course meets the Bachelor of Arts degree requirements. As required by the Pennsylvania Department of Education, all music education students seeking certificati
MUSIC 495C	Student Teaching: Instrumental Music 5-7 Credits/Maximum of 7	MUSIC 495C Student Teaching: Instrumental Music (5-7)(BA) This course meets the Bachelor of Arts degree requirements. As required by the Pennsylvania Department of Education, all music education students seeking cert
MUSIC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MUSIC 496H	Independent Studies - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
MUSIC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
MUSIC 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
BRASS 100	Trumpet: Secondary 1 Credits/Maximum of 8	Individual instruction in trumpet one-half hour per week. BRASS 100 Trumpet: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to
BRASS 101	French Horn: Secondary 1 Credits/Maximum of 8	Individual instruction in French horn one-half hour per week. For students who qualify. BRASS 101 French Horn: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requiremen
BRASS 102	Trombone: Secondary 1 Credits/Maximum of 8	Individual instruction in trombone one-half hour per week. BRASS 102 Trombone: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are
BRASS 103	Euphonium: Secondary 1 Credits/Maximum of 8	Individual instruction in euphonium/baritone one-half hour per week. BRASS 103 Euphonium: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of thi
BRASS 104	Tuba: Secondary 1 Credits/Maximum of 8	Individual instruction in tuba one-half hour per week. BRASS 104 Tuba: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to introdu
BRASS 110	Trumpet: Secondary 2 Credits/Maximum of 16	Individual instruction in trumpet one hour per week. BRASS 110 Trumpet: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to intr
BRASS 111	French Horn: Secondary 2 Credits/Maximum of 16	Individual instruction in French horn one hour per week. For students who qualify. BRASS 111 French Horn: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements.
BRASS 112	Trombone: Secondary 2 Credits/Maximum of 16	Individual instruction in trombone one hour per week. BRASS 112 Trombone: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to
BRASS 113	Euphonium: Secondary 2 Credits/Maximum of 16	Individual instruction in euphonium/baritone one hour per week. BRASS 113 Euphonium: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this c
BRASS 114	Tuba: Secondary 2 Credits/Maximum of 16	Individual instruction in tuba one hour per week. BRASS 114 Tuba: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. The goals of this course are to introduce,
BRASS 120	Trumpet: Primary I 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 121	French Horn: Primary I 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 122	Trombone: Primary I 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 123	Euphonium: Primary I 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 124	Tuba: Primary I 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 130	Trumpet: Performance I 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 131	French Horn: Performance I 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 132	Trombone: Performance I 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 133	Euphonium: Performance I 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 134	Tuba: Performance I 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 170	Trumpet: Primary II 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors; other qualified students.

BRASS 171	French Horn: Primary II 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 172	Trombone: Primary II 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 173	Euphonium: Primary II 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 174	Tuba: Primary II 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 180	Trumpet: Performance II 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 181	French Horn: Performance II 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 182	Trombone: Performance II 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 183	Euphonium: Performance II 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 184	Tuba: Performance II 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 220	Trumpet: Primary III 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors.
BRASS 221	French Horn: Primary III 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors.
BRASS 222	Trombone: Primary III 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 223	Euphonium: Primary III 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 224	Tuba: Primary III 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B. S. majors.
BRASS 230	Trumpet: Performance III 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 231	French Horn: Performance III 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 232	Trombone: Performance III 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 233	Euphonium: Performance III 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 234	Tuba: Performance III 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 270	Trumpet: Primary IV 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 271	French Horn: Primary IV 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 272	Trombone: Primary IV 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 273	Euphonium: Primary IV 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 274	Tuba: Primary IV 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors.
BRASS 280	Trumpet: Performance IV 3 Credits/Maximum of 3	individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 281	French Horn: Performance IV 3 Credits/Maximum of 3	Individual instruction in French Horn one hour per week. For B.Mus. French Horn performance majors.
BRASS 282	Trombone: Performance IV 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 283	Euphonium: Performance IV 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus euphonium/baritone majors.
BRASS 284	Tuba: Performance IV 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 320	Trumpet: Primary V 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors.
BRASS 321	French Horn: Primary V 2 Credits/Maximum of 2	Individual instruction in French Horn one hour per week. For School of Music B.A. and B.S. majors.
BRASS 322	Trombone: Primary V 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 323	Euphonium: Primary V 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 324	Tuba: Primary V 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 330	Trumpet: Performance V 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 331	French Horn: Performance V 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 332	Trombone: Performance V 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 333	Euphonium: Performance V 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 334	Tuba: Performance V 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 370	Trumpet: Primary VI 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 371	French Horn: Primary VI 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 372	Trombone: Primary VI 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 373	Euphonium: Primary VI 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 374	Tuba: Primary VI 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors.
BRASS 380	Trumpet: Performance VI 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 381	French Horn: Performance VI 3 Credits/Maximum of 3	Individual instruction of French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 382	Trombone: Performance VI 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 383	Euphonium: Performance VI 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 384	Tuba: Performance VI 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 420	Trumpet: Primary VII 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors.
BRASS 421	French Horn: Primary VII 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors.
BRASS 422	Trombone: Primary VII 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 423	Euphonium: Primary VII 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 424	Tuba: Primary VII 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
BRASS 430	Trumpet: Performance VII 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 431	French Horn: Performance VII 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 432	Trombone: Performance VII 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 433	Euphonium: Performance VII 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.

BRASS 434	Tuba: Performance VII 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
BRASS 470	Trumpet: Primary VIII 2 Credits/Maximum of 2	Individual instruction in trumpet one hour per week. For School of Music B.A. and B.S. majors.
BRASS 471	French Horn: Primary VIII 2 Credits/Maximum of 2	Individual instruction in French horn one hour per week. For School of Music B.A. and B.S. majors.
BRASS 472	Trombone: Primary VIII 2 Credits/Maximum of 2	Individual instruction in trombone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 473	Euphonium: Primary VIII 2 Credits/Maximum of 2	Individual instruction in euphonium/baritone one hour per week. For School of Music B.A. and B.S. majors.
BRASS 474	Tuba: Primary VIII 2 Credits/Maximum of 2	Individual instruction in tuba one hour per week. For School of Music B.A. and B.S. majors.
BRASS 480	Trumpet: Performance VIII 3 Credits/Maximum of 3	Individual instruction in trumpet one hour per week. For B.Mus. trumpet performance majors.
BRASS 481	French Horn: Performance VIII 3 Credits/Maximum of 3	Individual instruction in French horn one hour per week. For B.Mus. French horn performance majors.
BRASS 482	Trombone: Performance VIII 3 Credits/Maximum of 3	Individual instruction in trombone one hour per week. For B.Mus. trombone majors.
BRASS 483	Euphonium: Performance VIII 3 Credits/Maximum of 3	Individual instruction in euphonium/baritone one hour per week. For B.Mus. euphonium/baritone majors.
BRASS 484	Tuba: Performance VIII 3 Credits/Maximum of 3	Individual instruction in tuba one hour per week. For B.Mus. tuba majors.
JAZZ 100	Jazz Performance Studies 1 Credits/Maximum of 8	Jazz Performance provides individual instruction for vocal and instrumental musicians to develop theoretical, technical, and aural skills required by selected jazz performance styles. The style(s) to be studied are agreed upon
JAZZ 110	Jazz Performance Studies 2 Credits/Maximum of 16	Jazz Performance provides individual instruction for vocal and instrumental musicians to develop theoretical, technical, and aural skills required by selected jazz performance styles. The style(s) to be studied are agreed upon
KEYBD 100	Piano: Secondary 1 Credits/Maximum of 8	Individual instruction in piano one-half hour per week. KEYBD 100 Piano: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. KEYBD 100 is designed to provide t
KEYBD 101	Organ: Secondary 1 Credits/Maximum of 8	Individual instruction in pipe organ one-half hour per week. KEYBD 101J Organ: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Keyboard 101J is designed t
KEYBD 110	Piano: Secondary 2 Credits/Maximum of 16	Individual instruction in piano one hour per week. KEYBD 110 Piano: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Keyboard 110 is designed to provide th
KEYBD 111	Organ: Secondary 2 Credits/Maximum of 16	Individual instruction in pipe organ one hour per week. KEYBD 111J Organ: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Keyboard 111J is designed to p
KEYBD 120	Piano: Primary I 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 130	Piano: Performance I 3 Credits	Individual instruction in piano one hour per week. For B.Mus. performance majors.
KEYBD 170	Piano: Primary II 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 180	Piano: Performance II 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 220	Piano: Primary III 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 230	Piano: Performance III 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 270	Piano: Primary IV 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 280	Piano: Performance IV 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 320	Piano: Primary V 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 330	Piano: Performance V 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 370	Piano: Primary VI 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 380	Piano: Performance VI 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 420	Piano: Primary VII 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 430	Piano: Performance VII 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
KEYBD 470	Piano: Primary VIII 2 Credits	Individual instruction in piano one hour per week. For School of Music B.A. and B.S. majors.
KEYBD 480	Piano: Performance VIII 3 Credits	Individual instruction in piano one hour per week. For B.Mus. piano performance majors.
PERCN 100	Percussion: Secondary 1 Credits/Maximum of 8	Individual instruction in percussion one-half hour per week. For both music and non-music majors. PERCN 100 Percussion: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree
PERCN 110	Percussion: Secondary 2 Credits/Maximum of 16	Individual instruction in percussion one hour per week. For both music and non-music majors. PERCN 110 Percussion: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree req
PERCN 120	Percussion: Primary I 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
PERCN 130	Percussion: Performance I 3 Credits	Individual instruction in percussion one hour per week. For B.Mus percussion majors.
PERCN 170	Percussion: Primary II 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 180	Percussion: Performance II 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
PERCN 220	Percussion: Primary III 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 230	Percussion: Performance III 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
PERCN 270	Percussion: Primary IV 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 280	Percussion: Performance IV 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
PERCN 320	Percussion: Primary V 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 330	Percussion: Performance V 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
PERCN 370	Percussion: Primary VI 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 380	Percussion: Performance VI 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.

PERCN 420	Percussion: Primary VII 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 430	Percussion: Performance VII 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
PERCN 470	Percussion: Primary VIII 2 Credits	Individual instruction in percussion one hour per week. For School of Music B.A. and B.S. majors.
PERCN 480	Percussion: Performance VIII 3 Credits	Individual instruction in percussion one hour per week. For B.Mus. percussion majors.
STRNG 100	Violin: Secondary 1 Credits/Maximum of 8	Individual instruction in violin one-half hour per week. STRNG 100 Violin: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to introduce
STRNG 101	Viola: Secondary 1 Credits/Maximum of 8	Individual instruction in viola one-half hour per week. STRNG 101 Viola: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to introduce,
STRNG 102	Violoncello: Secondary 1 Credits/Maximum of 8	Individual instruction in violoncello one-half hour per week. STRNG 102 Violoncello: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed t
STRNG 103	Double Bass: Secondary 1 Credits/Maximum of 8	Individual instruction in double bass one-half hour per week. STRNG 103 Double Bass: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designe
STRNG 104	Guitar: Secondary 1 Credits/Maximum of 8	Individual instruction in guitar 1/2 hour per week. For School of Music majors whose primary instrument is not guitar; other qualified students. STRNG 104 Guitar: Secondary (1 per semester/maximum of 8) Individual instructi
STRNG 105	Harp: Secondary 1 Credits/Maximum of 8	Individual instruction in harp one-half hour per week. For both music and non-music students. STRNG105 Harp: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requiremen
STRNG 110	Violin: Secondary 2 Credits/Maximum of 16	Individual instruction in violin one hour per week. STRNG 110 Violin: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to introduce, de
STRNG 111	Viola: Secondary 2 Credits/Maximum of 16	Individual instruction in viola one hour per week. STRNG 111 Viola: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to introduce, def
STRNG 112	Violoncello: Secondary 2 Credits/Maximum of 16	Individual instruction in violoncello one hour per week. STRNG 112 Violoncello: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to in
STRNG 113	Double Bass: Secondary 2 Credits/Maximum of 16	Individual instruction in double bass one hour per week. STRNG 113 Double Bass: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed t
STRNG 114	Guitar: Secondary 2 Credits/Maximum of 16	Individual instruction in guitar one hour per week. For School of Music majors whose primary instrument is not guitar; other qualified students. STRNG 114 Guitar: Secondary (2 per semester/maximum of 16) Individual instruc
STRNG 115	Harp: Secondary 2 Credits/Maximum of 16	Individual instruction in harp one hour per week. For both music and non-music students. STRNG115 Harp: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. Ir
STRNG 120	Violin: Primary I 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 121	Viola: Primary I 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 122	Violoncello: Primary I 2 Credits	Individualized instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 123	Double Bass: Primary I 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 124	Guitar: Primary I 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 124J Guitar: Primary I (2) Individual instruction in guitar one hour per week. For music majors in the BA pro
STRNG 125	Harp: Primary I 2 Credits	Individual instruction in harp one hour per week. STRNG125 Harp: Primary(1 per semester/maximum of 8) Individualized instruction will guide the student toward mastery of the instrument, the study of repertoire, developmer
STRNG 130	Violin: Performance I 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 131	Viola: Performance I 3 Credits	Individual instruction in viola one hour per week. For B.Mus. guitar performance majors.
STRNG 132	Violoncello: Performance I 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 133	Double Bass: Performance I 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 134	Guitar: Performance I 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 170	Violin: Primary II 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 171	Viola: Primary II 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 172	Violoncello: Primary II 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 173	Double Bass: Primary II 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.

STRNG 174	Guitar: Primary II 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 174J Guitar: Primary II (2) Individual instruction in guitar one hour per week. For music majors in the BA pr
STRNG 180	Violin: Performance II 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance major.
STRNG 181	Viola: Performance II 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 182	Violoncello: Performance II 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 183	Double Bass: Performance II 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 184	Guitar: Performance II 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 220	Violin: Primary III 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 221	Viola: Primary III 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 222	Violoncello: Primary III 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 223	Double Bass: Primary III 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 224	Guitar: Primary III 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 224 Guitar: Primary III Individual instruction in guitar one hour per week. For music majors in the BA progr
STRNG 230	Violin: Performance III 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 231	Viola: Performance III 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 232	Violoncello: Performance III 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 233	Double Bass: Performance III 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass majors.
STRNG 234	Guitar: Performance III 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 270	Violin: Primary IV 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students .
STRNG 271	Viola: Primary IV 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 272	Violoncello: Primary IV 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 273	Double Bass: Primary IV 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 274	Guitar: Primary IV 2 Credits	Individual instruction in guitar one hour per week.For School of Music B.A. majors; other qualified students. STRNG 274 Guitar: Primary IV (2) Individual instruction in guitar one hour per week. For music majors in the BA pro
STRNG 280	Violin: Performance IV 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 281	Viola: Performance IV 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 282	Violoncello: Performance IV 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 283	Double Bass: Performance IV 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 284	Guitar: Performance IV 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 320	Violin: Primary V 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 321	Viola: Primary V 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 322	Violoncello: Primary V 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 323	Double Bass: Primary V 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 324	Guitar: Primary V 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 324J Guitar: Primary V (2) Individual instruction in guitar one hour per week. For music majors in the BA pro
STRNG 330	Violin: Performance V 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 331	Viola: Performance V 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 332	Violoncello: Performance V 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 333	Double Bass: Performance V 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 334	Guitar: Performance V 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 370	Violin: Primary VI 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 371	Viola: Primary VI 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 372	Violoncello: Primary VI 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 373	Double Bass: Primary VI 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 374	Guitar: Primary VI 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 374 Guitar: Primary VI (2) Individual instruction in guitar one hour per week. For music majors in the BA pro
STRNG 380	Violin: Performance VI 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 381	Viola: Performance VI 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 382	Violoncello: Performance VI 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 383	Double Bass: Performance VI 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 384	Guitar: Performance VI 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 420	Violin: Primary VII 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 421	Viola: Primary VII 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 422	Violoncello: Primary VII 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 423	Double Bass: Primary VII 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 424	Guitar: Primary VII 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students. STRNG 424J Guitar: Primary VII (2) Individual instruction in guitar one hour per week. For music majors in the BA p
STRNG 430	Violin: Performance VII 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 431	Viola: Performance VII 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 432	Violoncello: Performance VII 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 433	Double Bass: Performance VII 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 434	Guitar: Performance VII 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
STRNG 470	Violin: Primary VIII 2 Credits	Individual instruction in violin one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 471	Viola: Primary VIII 2 Credits	Individual instruction in viola one hour per week. For School of Music B.A. and B.S. majors; other qualified students.

STRNG 472	Violoncello: Primary VIII 2 Credits	Individual instruction in violoncello one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 473	Double Bass: Primary VIII 2 Credits	Individual instruction in double bass one hour per week. For School of Music B.A. and B.S. majors; other qualified students.
STRNG 474	Guitar: Primary VIII 2 Credits	Individual instruction in guitar one hour per week. For School of Music B.A. majors; other qualified students.
STRNG 480	Violin: Performance VIII 3 Credits	Individual instruction in violin one hour per week. For B.Mus. violin performance majors.
STRNG 481	Viola: Performance VIII 3 Credits	Individual instruction in viola one hour per week. For B.Mus. viola performance majors.
STRNG 482	Violoncello: Performance VIII 3 Credits	Individual instruction in violoncello one hour per week. For B.Mus. violoncello performance majors.
STRNG 483	Double Bass: Performance VIII 3 Credits	Individual instruction in double bass one hour per week. For B.Mus. double bass performance majors.
STRNG 484	Guitar: Performance VIII 3 Credits	Individual instruction in guitar one hour per week. For B.Mus. guitar performance majors. The study of technique and musical interpretation on the guitar. Grounded in classical guitar pedagogy, yet delving into Jazz & Latin st
VOICE 100	Voice: Secondary 1 Credits/Maximum of 8	Individual instruction in voice one-half hour per week. VOICE 100 Voice: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to present ar
VOICE 110	Voice: Secondary 2 Credits/Maximum of 16	Individual instruction in voice one hour per week. VOICE 110 Voice: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to present and a
VOICE 120	Voice: Primary I 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 130	Voice: Performance I 3 Credits	Individual instruction in voice one hour per week. For B.Mus voice performance majors.
VOICE 170	Voice: Primary II 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 180	Voice: Performance II 3 Credits	Individual instruction in voice one hour per week. For B.Mus voice performance majors.
VOICE 220	Voice: Primary III 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 230	Voice: Performance III 3 Credits	Individual instruction in voice one hour per week. For B.Music voice performance majors.
VOICE 270	Voice: Primary IV 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 280	Voice: Performance IV 3 Credits	Individual instruction in voice one hour per week. For B.Mus. voice performance majors.
VOICE 320	Voice: Primary V 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 330	Voice: Performance V 3 Credits	Individual instruction in voice one hour per week. For B.Mus. voice performance majors.
VOICE 370	Voice: Primary VI 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 380	Voice: Performance VI 3 Credits	Individual instruction in voice one hour per week. For B.Mus. voice performance majors.
VOICE 412	Musical Theatre Voice V 2 Credits	Individual instruction in voice. Intended for Theatre BFA in Music Theatre students. VOICE 412J Musical Theatre Voice V (2) VOICE 412J continues to develop a vocal approach and technique to musical theatre repertoire. It
VOICE 420	Voice: Primary VII 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 430	Voice: Performance VII 3 Credits	Individual instruction in voice one hour per week. For B.Mus. voice performance majors.
VOICE 462	Musical Theatre Voice VI 2 Credits	Individual instruction in voice. Intended for Theatre BFA in Music Theatre students. VOICE 462J Musical Theatre Voice VI (2) VOICE 462J continues to develop a vocal approach and technique to musical theatre repertoire st
VOICE 470	Voice: Primary VIII 2 Credits	Individual instruction in voice one hour per week. For School of Music B.A. and B.S. majors.
VOICE 480	Voice: Performance VIII 3 Credits	Individual instruction in voice one hour per week. For B.Mus. voice performance majors.
WWNDS 100	Flute: Secondary 1 Credits/Maximum of 8	Individual instruction in flute one-half hour per week. For both music and non-music majors. WWNDS 100 Flute: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requiremen
WWNDS 101	Oboe: Secondary 1 Credits/Maximum of 8	Individual instruction in oboe one-half hour per week. For both music and non-music students. WWNDS 101 OBOE: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree require
WWNDS 102	Clarinet: Secondary 1 Credits/Maximum of 8	Individual instruction in clarinet one-half hour per week. For both music and non-music students. WWNDS 102 Clarinet: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree requ
WWNDS 103	Bassoon: Secondary 1 Credits/Maximum of 8	Individual instruction in bassoon one-half hour per week. For both music and non-music majors. WWNDS 103 Bassoon: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degree req
WWNDS 104	Saxophone: Secondary 1 Credits/Maximum of 8	Individual instruction in saxophone one-half hour per week. For both music and non-music majors. WWNDS 104 Saxophone: Secondary (1 per semester/maximum of 8) (GA)(BA) This course meets the Bachelor of Arts degre
WWNDS 110	Flute: Secondary 2 Credits/Maximum of 16	Individual instruction in flute one hour per week. For both music and non-music majors. WWNDS 110 Flute: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requirements.

WWNDS 111	Oboe: Secondary 2 Credits/Maximum of 16	Individual instruction in oboe one hour per week. For both music and non-music students. WWNDS 111 OBOE: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree requiremer
WWNDS 112	Clarinet: Secondary 2 Credits/Maximum of 16	Individual instruction in clarinet one hour per week. For both music and non-music students. WWNDS 112 Clarinet: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree require
WWNDS 113	Bassoon: Secondary 2 Credits/Maximum of 16	Individual instruction in bassoon one hour per week. For both music and non-music majors. WWNDS 113 Bassoon: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree require
WWNDS 114	Saxophone: Secondary 2 Credits/Maximum of 16	Individual instruction in saxophone one hour per week. For both music and non-music majors. WWNDS 114 Saxophone: Secondary (2 per semester/maximum of 16) (GA)(BA) This course meets the Bachelor of Arts degree re
WWNDS 120	Flute: Primary I 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 121	Oboe: Primary I 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 122	Clarinet: Primary I 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 123	Bassoon: Primary I 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 124	Saxophone Primary I 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 130	Flute: Performance I 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 131	Oboe: Performance I 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 132	Clarinet: Performance I 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 133	Bassoon: Performance I 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 134	Saxophone: Performance I 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 170	Flute: Primary II 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 171	Oboe: Primary II 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 172	Clarinet: Primary II 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 173	Bassoon: Primary II 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 174	Saxophone: Primary II 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 180	Flute: Performance II 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 181	Oboe: Performance II 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 182	Clarinet: Performance II 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinetmajors.
WWNDS 183	Bassoon: Performance II 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 184	Saxophone: Performance II 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 220	Flute: Primary III 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 221	Oboe: Primary III 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 222	Clarinet: Primary III 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 223	Bassoon: Primary III 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 224	Saxophone: Primary III 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 230	Flute: Performance III 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 231	Oboe: Performance III 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 232	Clarinet: Performance III 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 233	Bassoon: Performance III 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 234	Saxophone: Performance III 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 270	Flute: Primary IV 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 271	Oboe: Primary IV 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 272	Clarinet: Primary IV 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 273	Bassoon: Primary IV 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 274	Saxophone: Primary IV 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 280	Flute: Performance IV 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 281	Oboe: Performance IV 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 282	Clarinet: Performance IV 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 283	Bassoon: Performance IV 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 284	Saxophone: Performance IV 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 320	Flute: Primary V 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 321	Oboe: Primary V 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 322	Clarinet: Primary V 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.

WWNDS 323	Bassoon: Primary V 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 324	Saxophone: Primary V 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 330	Flute: Performance V 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 331	Oboe: Performance V 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 332	Clarinet: Performance V 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinetmajors.
WWNDS 333	Bassoon: Performance V 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 334	Saxophone: Performance V 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 370	Flute: Primary VI 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 371	Oboe: Primary VI 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 372	Clarinet: Primary VI 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 373	Bassoon: Primary VI 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 374	Saxophone: Primary VI 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 380	Flute: Performance VI 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 381	Oboe: Performance VI 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 382	Clarinet: Performance VI 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 383	Bassoon: Performance VI 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 384	Saxophone: Performance VI 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 420	Flute: Primary VII 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 421	Oboe: Primary VII 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 422	Clarinet: Primary VII 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 423	Bassoon: Primary VII 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 424	Saxophone: Primary VII 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 430	Flute: Performance VII 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 431	Oboe: Performance VII 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 432	Clarinet: Performance VII 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 433	Bassoon: Performance VII 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 434	Saxophone: Performance VII 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
WWNDS 470	Flute: Primary VIII 2 Credits	Individual instruction in flute one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 471	Oboe: Primary VIII 2 Credits	Individual instruction in oboe one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 472	Clarinet: Primary VIII 2 Credits	Individual instruction in clarinet one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 473	Bassoon: Primary VIII 2 Credits	Individual instruction in bassoon one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 474	Saxophone: Primary VIII 2 Credits	Individual instruction in saxophone one hour per week. For School of Music B.A. and B.S. majors.
WWNDS 480	Flute: Performance VIII 3 Credits	Individual instruction in flute one hour per week. For B.Mus. flute performance majors.
WWNDS 481	Oboe: Performance VIII 3 Credits	Individual instruction in oboe one hour per week. For B.Mus. oboe majors.
WWNDS 482	Clarinet: Performance VIII 3 Credits	Individual instruction in clarinet one hour per week. For B.Mus. clarinet majors.
WWNDS 483	Bassoon: Performance VIII 3 Credits	Individual instruction in bassoon one hour per week. For B.Mus. bassoon performance majors.
WWNDS 484	Saxophone: Performance VIII 3 Credits	Individual instruction in saxophone one hour per week. For B.Mus. saxophone performance majors.
NAVSC 101	Introduction to Naval Science 3 Credits	Introduction to naval organization, customs, military law, ships, aircraft, and Marine Corps and Navy career paths. NAVSC 101 Introduction to Naval Science (3) The curriculum for Introduction to Naval Science is designed to
NAVSC 102	Sea Power and Maritime Affairs 3 Credits	Historical evolution of sea power and its effects on world history; current U.S. maritime strategy for employment of naval forces. NAVSC 201 Sea Power and Maritime Affairs (3) The curriculum for Sea Power and Maritime Affa
NAVSC 200	Leadership and Management 3 Credits	Managerial thought and behavioral theories, with emphasis on how they apply to the naval organization. NAVSC 103 Leadership and Management (3) The curriculum for Leadership and Management provides the basis for the
NAVSC 202	Naval Ships Systems I--Naval Engineering 3 Credits	Principles and applications of engineering concepts to ship construction, stability, and propulsion and auxiliary systems. NAVSC 202 Naval Ships Systems I-Naval Engineering (3) The Naval Ships Systems I: Naval Engineering
NAVSC 301	Naval Ships Systems II--Weapons 3 Credits	An analysis of electromagnetic wave theory, principles of underwater sound propagation, electro-optic theory, and weapons control systems. NAVSC 301 Naval Ships Systems II-Weapons (3) A continuation of Naval Ships Sy
NAVSC 302	Navigation 3 Credits	Theory and principles of all types of piloting and navigation, including a practicum emphasizing correct documentation and plotting. NAVSC 302 Navigation (3) The curriculum for Navigation provides the basis for maritime foc
NAVSC 313	Fundamentals of Maneuver Warfare 3 Credits	The purpose of this course is to introduce the student to the foundational concepts and history of the United States Marine Corps and its place in history as a Maneuver Warfighting Organization. It is a theoretical class that u
NAVSC 401	Naval Operations and Seamanship 3 Credits	Introduction to naval operations; the theory and principles of the rules of the road; use of the maneuvering board. NAVSC 401 Naval Operations and Seamanship (3) The curriculum for Naval Operations and Seamanship prov
NAVSC 402	Leadership and Ethics 3 Credits	The Navy's Resource Management Program (personnel management), counseling techniques, military justice, prevention of substance abuse, and naval correspondence and publications. NAVSC 402 Leadership and Ethics
NAVSC 411	Evolution of Warfare 3 Credits	The purpose of the Evolution of Warfare course is to provide the Marine student with a basic understanding of the art, science, and concepts of warfare. The flow of the course starts with USMC warfare theory foundations (M
NUCE 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUCE 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NUCE 301	Fundamentals of Reactor Physics 4 Credits	Nuclear reactions and interactions relevant to nuclear engineering including fission, cross-sections, reaction rate calculations, energy depositions rates, and radioactive decay. This course is designed to acquaint junior-level u
NUCE 302	Introduction to Reactor Design 4 Credits	Static and dynamic reactor theory applied to basic reactor design problems.
NUCE 309	Analytical Techniques for Nuclear Concept 3 Credits	This course is structured to provide students with the necessary analytical techniques and terminology for radiation science, nuclear reactor design, and power system simulation. Students will be taught the basic mathematic
NUCE 310W	Issues in Nuclear Engineering 2 Credits	Societal and technical issues facing nuclear engineers, including safety, operations, waste, regulation, public acceptance, economics, ethics, and radiation.
NUCE 321	Introduction to Thermal-Fluid Sciences for Nuclear Engineers - I 3 Credits	This course is intended to provide nuclear engineers with fundamentals in thermal-fluid sciences. This course is designed to develop an understanding of thermodynamic concepts and their application to nuclear thermal-fluid
NUCE 322	Introduction to Thermal-Fluid Sciences for Nuclear Engineers - II 3 Credits	This course is intended to provide nuclear engineers with fundamentals in thermal-fluids sciences. The course starts with an introduction of Similitude and Dimensional analysis (Buckingham Pi Theorem) and its application of
NUCE 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUCE 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NUCE 401	Introduction to Nuclear Engineering 3 Credits	Fundamental concepts of nuclear engineering, including fission, reactor theory, shielding, and radioisotopes; intended for other than nuclear engineering students.

NUCE 403	Advanced Reactor Design 3 Credits	Physical principles and computational methods for reactor analysis and design. Multigroup diffusion theory; determination of fast and thermal group constants; cell calculations for heterogeneous core lattices.
NUCE 405	Nuclear and Radiochemistry 3 Credits	Theory of radioactive decay processes, nuclear properties and structure, nuclear reactions, interactions of radiation with matter, biological effects of radiation. CHEM 406 Nuclear and Radiochemistry (3) CHEM 406 provides a
NUCE 406	Introduction to Statistical Thermodynamics 3 Credits	Statistical description of systems composed of large numbers of particles in the context of classical and quantum mechanics; basic concepts of probability theory and thermodynamics as they relate to statistical mechanics.
NUCE 408	Radiation Shielding 3 Credits	Radiation sources in reactor systems; attenuation of gamma rays and neutrons; point kernel methods; deep penetration theories; Monte Carlo methods.
NUCE 409	Nuclear Materials 3 Credits	Nuclear reactor materials: relationship between changes in material properties and microstructural evolution of nuclear cladding and fuel under irradiation. NUC E (MATSE) 409 Nuclear Materials (3) NUC E/MATSE 409 provid
NUCE 420	Radiological Safety 3 Credits	Ionizing radiation, biological effects, radiation measurement, dose computational techniques, local and federal regulations, exposure control.
NUCE 428	Radioactive Waste Control 3 Credits	Nature, sources, and control of radioactive wastes; theory and practice of disposal processes.
NUCE 430	Design Principles of Reactor Systems 3 Credits	Nuclear power cycles; heat removal problems; kinetic behavior of nuclear systems; material and structural design problems. NUC E 430 Design Principles of Reactor Systems (3) This course is designed to provide students i
NUCE 431W	Nuclear Reactor Core Design Synthesis 4 Credits	Technical and economic optimization of nuclear systems. NUC E 431W Nuclear Reactor Core Design Synthesis (4) This course provides a capstone design experience that will give the student an understanding of the desigr
NUCE 441	Nuclear Security Threat Analysis and Assessments 3 Credits	Nuclear threat assessment and analysis for non-state actors to nuclear and radiological facilities and supply lines. NUC E 441 Nuclear Security Threat Analysis and Assessments (3) The primary goal of this course is to educa
NUCE 442	Nuclear Security System Design 3 Credits	Science and engineering associated with the design, evaluation, and implementation of systems to secure nuclear and radiological materials. NUC E 442 Nuclear Security System Design (3) The primary goal of this course is
NUCE 450	Radiation Detection and Measurement 3 Credits	Theory and laboratory applications of radiation detectors, including proton, neutron, charged particle detectors, NIM devices, and pulse-height analysis.
NUCE 451	Experiments in Reactor Physics 3 Credits	Acquisition and processing of nuclear and atomic data; application to nucleonic phenomena of importance in nuclear engineering.
NUCE 470	Power Plant Simulation 3 Credits	Basic knowledge necessary for intelligent simulation and interpretation of simulations of transients in nuclear power plants.
NUCE 480	Foundations of Nuclear Engineering 3 Credits	This course is designed as an intensive course providing an introduction to nuclear engineering for graduate students with a non-nuclear background. The course starts with an introduction to fundamental concepts of atomic
NUCE 490	Introduction to Plasmas 3 Credits	This course provides the education on models that are used for description of plasma phenomena as applicable to plasma confinement, plasma assisted materials processing, astrophysical plasmas and plasmas in the near
NUCE 494	Senior Thesis 1-9 Credits/Maximum of 9	Students must have approval of a thesis adviser before scheduling this course. NUC E 494H Senior Thesis (1-9) All Schreyer Scholars are required to complete an undergraduate honors thesis. This work represents the culm
NUCE 496	Independent studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NUCE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUCE 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NURS 100	First Year Seminar in Nursing 1 Credits	First year seminars in Nursing will introduce the student to the University and the College of Nursing. The primary focus will be engaging students in learning and orienting them to the scholarly community from the outset of t
NURS 115	Medications and the Elderly Client 1 Credits	Nursing implications of medication therapy with the elderly client.
NURS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NURS 200M	Principles of Nursing Research and Evidence-Based Practice-Honors 3 Credits	NURS 200M is an introduction to principles and methods of nursing research and application of research evidence to practice. The course is a writing intensive Honors course. Students will work individually and in cooperativ
NURS 200W	Principles of Nursing Research and Evidence-Based Practice 3 Credits	Introduction to principles and methods of nursing research and application of , research evidence to practice. , NURS 200W is the introduction to principles and methods of nursing research and
NURS 203	First Aid and CPR 3 Credits	NURS 203 An introductory first aid course designed to provide the basic knowledge and skills to assist someone who is injured or ill. The course covers safety precautions of the responders including legal and ethical issues,
NURS 225	Pathophysiology 3 Credits	Designed to explore the illness component of health with emphasis on the pathophysiological and psychosocial aspects. NURS 225 NURS 225 Pathophysiology (3) NURS 225 is designed to explore the illness component of
NURS 230	Introduction to the Fundamentals of Nursing 4 Credits	Introduction to the nursing process, clinical competencies and psychosocial skills. NURS 230 NURS 230 Introduction to Fundamentals of Nursing (4) NURS 230 incorporates the analysis of the nursing process and introduct
NURS 240	Medication Calculations for Nurses 1 Credits	Application of mathematical methods for drug calculations that support safe administration of the correctly calculated dosages of medications. This course is designed to help prepare student nurses for safe medication adm
NURS 245	Violence and the Impact on Society 3 Credits	The NURS 245 goal is to facilitate an interdisciplinary and cross-theoretical approach to (1) raise awareness to the prevalence, causes, consequences of the different types of violence impacting societies; (2) to help students
NURS 250	Professional Role Dev I: Intro to Professional Issues in Nursing Practice and Nursing 2 Credits	NURS 250 Professional Role Dev I: Intro to Professional Issues in Nursing Practice and Nursing Informatics (2) (US)NURS 250US is the first course in the baccalaureate nursing program and introduces the students to the pro
NURS 251	Health Assessment 3 Credits	Designed to broaden the student's knowledge and skills in health assessment and physical examination across the lifespan. NURS 251 Health Assessment (3) NURS 251 is designed to broaden the student's knowledge and
NURS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NURS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NURS 300	Honors Seminar in Nursing 3 Credits	Seminar activities on selected topics in nursing. NURS 300H Honors Seminar in Nursing (3) NURS 300H is designed to follow the introduction to nursing research course for honor students only. Each class session focuses o
NURS 301	Nursing Care of the Adult Client Requiring Medical-Surgical Intervention 4 Credits	Therapeutic nursing care of the adult client in a variety of primarily medical-surgical settings. NURS 301 Nursing Care of the Adult Client Requiring Medical-Surgical Intervention (4) NURS 301 focuses on nursing care of adult
NURS 302	Clinical Judgement in Nursing 1 Credits	NURS 302 is a one-credit - 45 hour faculty supervised clincal experience that focuses on the care of the adult medical surgical patient population. Upon completion of the course, the student will be able to analyze pathophys
NURS 303	Clinical Application of Laboratory Tests 1 Credits	A study of the background, meaning, and nursing implications of laboratory test results. NURS 303 Clinical Application of Laboratory Tests (1) NURS 303 is a study of the background, meaning, and nursing implications of la
NURS 305	Introduction to Pharmacological Concepts 3 Credits	Study of basic concepts of pharmacology and relevant nursing implications. NURS 305 Introduction to Pharmacological Concepts (3) NURS 305 is the introduction to pharmacological concepts and identifies the pharmacod
NURS 306	Nursing Care of Children and Adolescents 3 Credits	Common health problems and nursing intervention for children and adolescents. NURS 306 Nursing Care of Children and Adolescents (3) NURS 306 focuses on common health problems and nursing intervention for childrer
NURS 310	Therapeutic Nursing Care of the Older Adult Client in a Variety of Settings 3 Credits	Nursing concerns and intervention in promoting the health of the older adult. NURS 310 NURS 310 Therapeutic Nursing Care of the Older Adult Client in a Variety of Settings (3) NURS 310 focuses on nursing concerns and i
NURS 320	Nursing Care of the Childbearing Family and Gynecological Client 3 Credits	Therapeutic nursing care of the chilbearing family and gynecological client. NURS 320 NURS 320 Nursing Care of the Child Bearing Family and Gynecological Client (3) NURS 320 focuses on providing therapeutic nursing ca
NURS 325N	Health and Environmental Sustainability 3 Credits	NURS / SUST 325N: Health in Environmental Sustainability; 3 credits. (Inter-Domain), (GHW), (GN). People live in constant contact with the environment: the built environment of homes, offices, and industrial facilities, as well
NURS 350	Professional Role Development II: Ethics, Legal and Genomic Issues 2 Credits	The study of the interaction of ethical, legal, and genomic concepts as they apply to current health care practice. NURS 350 Professional Role Development II: Ethics, Legal and Genomic Issues (2) NURS 350 is the second o
NURS 352	Advanced Health Assessment for the Registered Nurse 3 Credits	RECOMMENDED PREPARATION: NURS MAJOR CONTROL NURS 352 is a course designed to extend the RN student's knowledge and skills in health assessment and physical examination across the lifespan. The course
NURS 357	Introduction to Nursing Informatics 3 Credits	NURS 357 is an introduction to nursing informatics focusing on technology applications to the nursing profession. This course provides a broad overview of nursing informatics and the various applications of informatics prin
NURS 390	Transition and the Professional Nursing Role 3 Credits	Transition to baccalaureate education and professional nursing practice, emphasizing leadership, management, and issues influencing nursing education and practice. NURS 390 Transition and the Professional Nursing Role
NURS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NURS 401	Concepts of Health 3 Credits	Exploration of current and ancient concepts of health and their respective modes of intervention.
NURS 402	Holistic Health 3 Credits	Examination of emerging conceptualizations of health and therapy based on a holistic view of human beings.

NURS 403	School Health and Emergency Care of Children and Adolescents 3 Credits	Techniques for higher-level care for school health and emergency situations and application-based education. NURS 403 School Health and Emergency Care of Children and Adolescents (3)This course is a part of the schoo
NURS 404	Cardiac Dysrhythmias: Interpretation, Treatment, and Nursing Management 1 Credits	An introductory course with a focus on dysrhythmia recognition and interpretation of abnormal 12-lead electrocardiograms (EKG, ECG). NURS 404 Cardiac Dysrhythmias: Interpretation, Treatment, and Nursing Management
NURS 405A	Nursing Care of the Adult Client with Complex Health Problems: Part A 4 Credits	In-depth study of care of patients with acute and complex health problems, utilizing evidence based practice. NURS 405A - Nursing Care of the Adult Client with Complex Health Problems: Part A (4) NURS 405A focuses on
NURS 405B	Nursing Care of the Adult Client with Complex Health Problems: Part B 4 Credits	In-depth study of care of patients with acute and complex health problems, utilizing evidence based practice. NURS 405B - Nursing Care of the Adult Client with Complex Health Problems: Part B (4) NURS 405B focuses on
NURS 407	Drugs of Abuse and Mental Health Issues 3 Credits	RECOMMENDED PREPARATION FOR NURS 407 IS BB H 143 OR PSYCH 100. NURS 407 examines the issue of substance abuse in today's society. It looks closely into the health care needs across the lifespan of clients w
NURS 408	Clinical Application of Pharmacological Concepts 1 Credits	Study of the application of pharmacological concepts to the clinical setting. NURS 408 Clinical Application of Pharmacological Concepts (1) NURS 408 is an elective course designed to provide the interested student an in-d
NURS 409	Introduction to Forensic Nursing 3 Credits	Provides an introduction to the forensic health sciences, forensic nursing, and the nursing role in the scientific investigation of violence. RECOMMENDED PREPARATION FOR NURS 409 IS NURS225, NURS 230, NURS 250.
NURS 410	Forensic Evidence Collection and Preservation 3 Credits/Maximum of 3	Examines nurses' role of recognizing patterns of injury. Evidence collection procedures are examined from collection to courtroom presentation, includes autopsy. Forensic Evidence Collection and Preservation examines the
NURS 411	Seminar in Forensic Nursing 3 Credits	Seminar to discuss current topics, trends and research related to forensic nursing.
NURS 415	Community and Family Health Nursing 4 Credits	NURS 415 Community and Family Health Nursing - Concepts and Applications (4) (US;IL) NURS 415 US;IL focuses on nursing care of clients in the community and the family. This course allows students to work independent
NURS 417	Family and Community Health Concepts 4 Credits	Study of the concepts of family and community based nursing care emphasizing multicultural influences on health practices. NURS 417 Family and Community Health Concepts (4) (US;IL) Upon completion of the course the
NURS 420	Mental Health Nursing 4 Credits	Emphasizes clinical application of mental health theory in nursing care of patients with acute and chronic mental health problems. NURS 420 NURS 420 Mental Health Nursing (4) NURS 420 focuses on care of clients experie
NURS 430	Organization and Administration for the Nurse Manager 3 Credits	Introduction to organizational theory and principles of practice in the administration of nursing services and patient care. NURS 430 Organization and Administration for the Nurse Manager (3) NURS 430 is the first of four cou
NURS 431	Data Management for Nurse Managers 3 Credits	Analysis of information systems to manage nursing service organizations; includes financial management, the budgeting processes, and productivity measurement. NURS 431 NURS 431 Data Management for Nurse Manag
NURS 432	Nursing Management of Human Resources 3 Credits	Human resource management and related factors in nursing service organizations. NURS 432 NURS 432 Nursing Management of Human Resources (3) NURS 432 is the third of four courses included in the nursing manager
NURS 433	Seminar for Nurse Managers 3 Credits	Course focuses on the application of management principles in the role of the nurse manager. NURS 433 NURS 433 Seminar for Nurse Managers (3) NURS 433 is the fourth of four courses included in the nursing manageme
NURS 440	Trauma/Critical Care Nursing 3 Credits	Focuses on the impact of and the nursing care of persons experiencing acute trauma and/or critical illness. NURS 440 NURS 440 Trauma/Critical Care Nursing (3) NURS 440 is designed as an introductory study of the impac
NURS 441	Nursing Care of America's Veterans: An Introduction Into the Care of Military Vete 3 Credits	This course offers information on caring for the unique population of United States military veterans. NURS 441 Nursing Care of America's Veterans: An Introduction Into the Care of Military Veterans (3) This course provides i
NURS 442	Introduction to Perioperative Nursing 1 Credits	Perioperative nursing is a growing field with significant career opportunities for professional nurses. This course is designed to introduce undergraduate nursing students to the specialty of perioperative nursing through didac
NURS 450A	Professional Role Development III: Leadership and Management 2 Credits	Study of leadership roles and various styles of nursing management and their implications for the professional nurse. NURS 450A - Professional Role Development III: Leadership and Management (2) NURS 450A is the senio
NURS 450B	Professional Role Development III: Clinical Capstone 3 Credits	Senior level clinical capstone course that emphasizes the integration and application of theory and evidence based practice. NURS 450B is the clinical capstone course for the Nursing Program and provides a total of 135 cli
NURS 452	Women's Health Issues 3 Credits	The course provides the opportunity to explore priority health issues impacting the well being of women through a holistic lens including the physiologic, psychological, social, economic, political and cultural considerations. I
NURS 458	Ethical Challenges in Healthcare Informatics 3 Credits	A case based collaboratory designed for the exploration and analysis of the ethical dilemmas facing healthcare informatics practitioners. NURS 458 focuses on the challenges associated with managing private healthcare info
NURS 460	Advanced Concepts in Clinical Nursing Informatics 3 Credits	An exploration of clinical informatics tools to support informatics practice. NURS 460 Advanced Concepts in Clinical Nursing Informatics (3) Advanced Concepts in Clinical Nursing Informatics prepares nurses to support, pro
NURS 463	Compassionate Counseling for Children/Adolescents Dealing with Dying, Death, C 3 Credits	Explores issues involving dying, death and life crises which occur in today's world and affect school communities. RECOMMENDED PREPARATION FOR NURS 463 IS PSYCH 100 OR SOC 001 OR HD FS 129. NURS 463 ex
NURS 464	Dying and Death 3 Credits	NURS 464 focuses on the exploration of attitudes toward death and dying, concept of grief, responsibilities to the dying person and the family across cultures. The student will explore theories and research related to death a
NURS 465	Health Concepts for Adults with Complex Health Care Needs 3 Credits	In-depth study and application of the theoretical principles and roles of adult clients and families with complex healthcare needs. NURS 465 focuses on the application of concepts that relate to the adult high-risk client, fami
NURS 466	Systems and Community Responses 3 Credits	An exploration of the multidisciplinary response to child maltreatment. CMAS 466 / NURS 466 Systems and Community Responses (3) An exploration of the multidisciplinary response to child maltreatment. The roles, respon
NURS 468	Client Education Strategies for Nurses and Other Health Care Providers 3 Credits	Explores current and emerging roles of client education in the knowledge era. RECOMMENDED PREPARATION FOR NURS 468 IS PSYCH 100 OR SOC 001 OR HD FS 129. NURS 468 explores current and emerging roles of
NURS 472	Relational Aggression in the Healthcare Setting 3 Credits	An exploration of research and interventions for relational aggression in the healthcare setting. RECOMMENDED PREPARATION FOR NURS 472 IS NURN MAJOR OR NURS 350. NURS 472 focuses on the problem of workpl
NURS 475	Integrated Concepts in Nursing Practice 3 Credits	Project-based capstone course for application of nursing concepts to health promotion/disease prevention in populations. RECOMMENDED CONCURRENT FOR NURS 475 IS NURS 417 OR NURS 465. NURN MAJOR CON
NURS 480	NCLEX Prep 2 Credits	This course is designed to prepare nursing majors who are in their final semester to take the National Council Licensure Exam (NCLEX®) exam. Passing this exam is required to obtain licensure as a registered nurse (RN) in al
NURS 492	Emergency Care and Safety 3 Credits	NURS 492 is a comprehensive emergency care and safety course that incorporates basic first aid skills and knowledge and advanced topics such as oxygen therapy, hazardous materials, farm/rural incidents, disaster plannir
NURS 494	Honors Thesis 1-6 Credits/Maximum of 6	Independent honors research project related to student's interests directed by faculty supervisor and culminating in production of thesis. NURS 494H is the vehicle by which scholars in the Schreyer Honors College who are c
NURS 495	Nursing Study in Specialized Setting 1-12 Credits/Maximum of 12	Designed to provide student with in-depth study and practice in clinical specialty area of choice. COURSE CONTROL. NURS 495 is designed to provide students with in-depth study and practice in clinical specialty area of c
NURS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NURS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NURS 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NURS 499	Foreign Study--Nursing 1-9 Credits/Maximum of 9	Study of nursing issues in a foreign country.
NUTR 100	Nutrition Applications for a Healthy Lifestyle 3 Credits	This course introduces students to nutrition principles necessary to promote a healthy lifestyle through assessment and application. Students will be better prepared to evaluate nutrition-related issues presented in the media
NUTR 119	Elementary Foods 3 Credits	Basic principles and fundamental processes underlying food preparation. For non-nutrition majors only.
NUTR 123S	First Year Seminar in Nutritional Sciences 1 Credits	The course will meet once weekly to provide first year students with a basic understanding of why nutrition is important and how to improve their own diet and that of their friends and families. The course will explain the 3 op
NUTR 144	Our Plates: Exploring Food and Healthy Eating Patterns Through Cooking 3 Credits	This class teaches students how to plan and prepare recipes and meals through the lens of the Dietary Guidelines for Americans (DGFA) and the dietary guidelines of other countries and cultures. Students will explore the rela
NUTR 170	Careers in Nutrition 1 Credits	Nutrition professionals describe career paths and opportunities for graduates in applied and science options; strategies for making effective career decisions.
NUTR 175N	Healthy Food for All: Factors that Influence What we Eat in the US 3 Credits	This course explores factors that influence food intake, how individuals make food choices within their communities, and how these choices impact health and wellness. Topics include an overview of what Americans tend to
NUTR 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NUTR 211R	Applying Biochemistry to Nutrition 1 Credits	The course provides the student with a beginning understanding of how the biochemistry and metabolism under instruction applies to the human body. This includes the localization of biochemical processes within tissues ar
NUTR 251	Introductory Principles of Nutrition 3 Credits	NUTR 251 Introductory Principles of Nutrition (GHW) is a 3-credit course. This course is designed for nutrition majors and non-majors to provide a broad understanding of general principles of nutrition. Concepts covered incl

NUTR 251H	Introd Prin Nutrition (honors) 3 Credits	NUTR 251H, Introductory Principles of Nutrition (GHW) is a 3-credit General Education honors course. This course is designed for honors-seeking nutrition majors and non-majors in the pre-health fields to provide a broad un
NUTR 291N	Drugs and Nutrition: Social and Scientific Interactions 3 Credits	Drugs and Nutrition: Social and Scientific Interactions is a General Education Integrative Studies (N) course intended for all undergraduates looking to learn more about nutrition in the context of drugs. In this survey course,
NUTR 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
NUTR 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NUTR 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUTR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NUTR 310N	Diet Wars: Will there ever be a winner? 3 Credits	Virtually no discipline attracts more public attention or generates more controversies than nutrition. With more access to nutrition facts and diet plans now than ever before, why does the American diet contribute to obesity?
NUTR 320	Science and Methods of Food Preparation 4 Credits	The purpose of this course is to teach students the science of food preparation, to develop culinary skills, to learn how to preserve the nutritional content of plant and animal foods, and how to apply food safety principles du
NUTR 358	Assessment of Nutritional Status 3 Credits	NUTR 358 is an introduction to the purpose, methods, and scientific basis for assessment of nutritional status in total health care for individuals and groups. Students will learn the role of nutritional assessment within the Nut
NUTR 360	Nutrition Education and Behavior Change Theory 3 Credits	This course covers a range of topics related to providing evidence-based nutrition information to individuals as well as population-level health. It is designed to be an introductory course in nutrition education and theory withi
NUTR 361	Community and Public Health Nutrition 3 Credits	This course covers a range of topics around nutritional issues related to population-level health. Community or public health work appeals to many graduates of Nutritional Sciences because it allows them to directly affect th
NUTR 372	Nutrient Metabolism 3 Credits	NUTR 372 provides a foundation in principles involved in human nutrient metabolism. Particular focus will be placed on macronutrients (protein, carbohydrates, and fats) and relevant micronutrients (e.g., water- and fat-solubl
NUTR 386	Managing Quality in Food and Nutrition Services 3 Credits	NUTR 386 Managing Quality in Food and Nutrition Services (3) This course is designed to foster the integration of management principles in the profession of nutrition and dietetics. Topics include strategic application of prin
NUTR 390	Nutritional Biochemistry and Physiology 4 Credits	NUTR 390 is an upper-level undergraduate course that provides a solid foundation in principles of biochemistry, anatomy, physiology in the context of nutrition. Particular focus will be placed on macronutrients (protein, carbo
NUTR 391	Professional Preparation in Nutrition and Dietetics 2 Credits	This course provides students with an introduction to current issues in public health, the healthcare industry, professional practice and consumer trends that impact nutrition and health careers. Students will participate in acti
NUTR 393	Dietetic Internship Application Development 1 Credits	This course is designed to assist students with the critical thinking skills required to prepare and implement post-graduate educational plans required to progress in the field of nutrition and dietetics. Students wishing to becc
NUTR 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
NUTR 400	Introduction to Nutrition Counseling 2 Credits	This course introduces students to the principles and issues present in the nutrition counseling relationship. Topics will include techniques designed to promote and support nutrition behavior change such as motivational inte
NUTR 407	Nutrition for Exercise and Sports 3 Credits	Interactions between nutrition, food selection, and timing of eating as they apply to exercise training and recreational physical activity.
NUTR 409	Addressing and intervening on social determinants of nutrition inequity 3 Credits	This course will ask students to look above and beyond the individual level for societal factors influencing population- and individual-level nutritional status. It will discuss people's nutrition behaviors, dietary choices, and nut
NUTR 410	Eating and Weight Disorders 3 Credits	Eating behaviors vary widely across individuals, but only the extremes of these behaviors are considered pathological. This course provides an opportunity for students to attain a theoretical overview of eating and weight-rela
NUTR 421	Biocultural Perspectives on Public Health Nutrition 3 Credits	NUTR 421 (3) (IL) takes a public health perspective whereby the bio-cultural influences on health and nutrition are examined across global contexts. It will challenge students to consider the extent to which social and cultural
NUTR 425	Global Nutrition Problems: Health, Science, and Ethics 3 Credits	This course is a survey of topics with a focus on an examination of the underlying reasons for malnutrition in developing countries and the nutrition-related health problems facing developing country populations, particularly
NUTR 445	Energy and Macronutrient Metabolism 3 Credits	This course is designed to provide a foundation in the chemistry and metabolism of the macronutrients. Building on a knowledge base in biochemistry, physiology, and nutrition, this course will focus on the metabolism of pro
NUTR 445H	Nutrient Metabolism I 3 Credits	Nutrients, their sources, metabolism, interrelationships and requirements with focus on carbohydrates, lipids, and proteins.
NUTR 446	Micronutrient Metabolism 3 Credits	Nutrition 446 is designed to provide a foundation in integrated metabolism, metabolic functions, biochemistry, as well as cellular and molecular biology of the micronutrients (vitamins and minerals). It is an advanced nutrition
NUTR 451	Nutrition throughout the Life Cycle 3 Credits	This course will take a lifecycle approach to the study of nutritional needs, status, conditions, and interventions. The same nutrients are needed from birth to older age, but the requirements change along with a plethora of ot
NUTR 452	Nutritional Aspects of Disease 3 Credits	This course will review the underlying nutritional components and pathophysiology of common human diseases/disorders. The focus is on the metabolic disturbances and nutritional interventions for the prevention of these d
NUTR 453	Medical Nutrition Therapy 3 Credits	This Medical Nutrition Therapy course provides students with a strong understanding of how to best prescribe diets for patients, depending on the specific disease profile of the individual. This understanding comes from inte
NUTR 460	Nutritional Neuroscience 3 Credits	This course explores how food affects behavior and the brain, and vice versa: how neural circuits and gut hormones control eating and other behaviors. Throughout the course we will dissect the proverb ¿You are what you e
NUTR 487	Advanced Performance Nutrition 3 Credits	This course will provide a review of metabolism as it relates to performance nutrition, and go greater in-depth on substrate utilization including supplements, hormones, and hydration during performance, recovery, and rest.
NUTR 490W	Nutrition Seminar 3 Credits	It is essential for nutrition professionals to keep up with the latest discoveries in the field. In this course, students will learn how to review published literature, integrate and evaluate the information, and disseminate their findi
NUTR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
NUTR 494H	Honors Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research identified on an individual or small-group basis.
NUTR 495	Advanced Field Experience in Nutrition 3 Credits	NUTR 495 is intended for students to earn academic credit through a supervised field experience in a dietetics or nutrition-related field. Students will complete 240 hours at a site agreed upon between the student, the field e
NUTR 495B	Advanced Field Experience in Nutrition 3 Credits	NUTR 495B: Advanced Field Experience in Nutrition is intended for students to earn academic credit through a supervised field experience in a dietetics or nutrition-related field. Students will complete 120 to 160 supervised
NUTR 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NUTR 496H	Independent Studies 3 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
NUTR 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUTR 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
NUTR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
OS 410	Foundations of Occupational Science and Therapy 4 Credits	Foundations of occupational science including the human drive to remain occupied, creation of identity through meaningful activity and enhancing health through occupation will be explored. Understanding engagement in da
OS 420	Occupational Constructs: Habits, Routines, Roles & Rituals 3 Credits	Habits, routines, roles, and rituals are occupational constructs for occupational science and occupational therapy practice. These will be examined as catalysts or deterrents in daily living for people, communities, and society
OS 430	Perspectives of Culture, Equity & Spirituality 3 Credits	Exploration of ways individuals and groups create, manage, and shift identities through their choice of and participation in occupations within society. This course specifically considers identity through occupations by examir
OS 440	Human Behavior: Creativity and Flow 3 Credits	This course delves into the complex nature of occupation and how it contributes to the experience of being human. Drawing on a wide range of material, from scientific research to literary analysis, students will study three m
OS 450	Applied Occupational Science Capstone 5 Credits	The capstone Occupational Science course will offer the student time to enhance skills in advanced scholarship, leadership, advocacy, program and policy development, education, or theory development in occupational sci
OT 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

OT 100	Structural Foundations of Occupational Therapy 1 Credits	An overview of the structural foundations of the occupational therapy profession.
OT 101	Conceptual Foundations of Occupational Therapy Practice 2 Credits	An overview of the conceptual foundations of occupational therapy practice. Observation of therapists in treatment settings. O T 101 Conceptual Foundations of Occupational Therapy Practice (3) The focus of the course is t
OT 103	Occupational Performance Across the Life Span 3 Credits	Analysis of occupations from birth to death including descriptions of occupational performance and factors which influence performance. O T 103 Occupational Performance Across the Life Span (3)The focus of this course
OT 195E	Fieldwork Level I Experience in Occupational Therapy 1 Credits	This is the first fieldwork level I experience. It involves observation and engagement with individuals and/or groups to develop a better understanding of occupational performance, challenges and occupation-based interventi
OT 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
OT 205	Group Process Across The Lifespan 3 Credits	The course addresses concepts & theories related to group processes and dynamics within the OT therapeutic context. Topics addressed in the course, include but are not limited to: types of groups, group roles, leadership s
OT 207	Assistive Technologies and Methods of Adaptation 3 Credits	Addresses a variety of assistive technology and assistive devices people use to assist them in completing daily and life occupations. Students engage several assistive technologies and learn to identify, create, and practice i
OT 209	Management, Leadership and Ethics in Occupational Therapy 3 Credits	Focus on management, leadership and ethics in occupational therapy practice will be addressed. Importance of intraprofessional and interprofessional collaboration, as well as, reimbursement and policies related to the deliv
OT 210W	Clinical Reasoning and Documentation in Occupational Therapy 3 Credits	This courses entails a broad scope experience in clinical reasoning strategies, proficient writing and documentation skills required by the occupational therapy assistant across a wide variety of practice settings. The objective
OT 212	Occupational Therapy for Child & Adolescent Health 4 Credits	Students will utilize clinical reasoning to facilitate occupation-based interventions that address client factors as related to conditions associated or the prevention of such with children and adolescents. Focused interventions
OT 214	Occupational Therapy for Psychosocial and Behavioral Health 4 Credits	Students will utilize clinical reasoning to facilitate occupation-based interventions that address client factors as related to psychosocial and behavioral health. Focused interventions will include areas of occupation, performar
OT 216	Occupational Therapy for Physical Health and Rehabilitation 4 Credits	Students will utilize clinical reasoning to facilitate occupation-based interventions that address client factors as related to physical health and rehabilitation. Focused interventions will include areas of occupation, performance
OT 295	**SPECIAL TOPICS** 1-12 Credits/Maximum of 6	No description
OT 295B	Field Experience in Occupational Therapy II 1-6 Credits	Part II of supervised experience in select occupational therapy settings in the role of an occupational therapy assistant; seminars included.
OT 295E	Fieldwork Level I Experience in Occupational Therapy 2 Credits	This is the second fieldwork level I experience taken alongside of coursework during the 4th semester. It involves observation and engagement with individuals and/or groups to develop a better understanding of occupationa
OT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
OT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
OT 395A	Fieldwork Level II Experience in Occupational Therapy 1-6 Credits	This is the first 8-week supervised fieldwork experience in a community or clinical based setting. Level II fieldwork may be completed in acute care facilities, rehabilitation facilities, out-patient centers, behavioral/mental healt
OT 395B	Fieldwork Level II Experience in Occupational Therapy 1-6 Credits	This is the second 8-week supervised fieldwork experience in a community or clinical based setting. Level II fieldwork may be completed in acute care facilities, rehabilitation facilities, out-patient centers, behavioral/mental h
OT 495	**SPECIAL TOPICS** 1-6 Credits/Maximum of 6	No description
OT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
OT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
OLEAD 100	Introduction to Leadership 3 Credits	The ability to lead others is increasingly valued in today's world of work, and this course introduces key leadership concepts and practices based on current theory and research from both a social science and humanities per
OLEAD 201	Organizational Theory and Functions for Leaders 3 Credits	Organizational theory and functions will explore the various functions of organizations in order to prepare students for future coursework. In particular the nature of organizations themselves will be examined along with variou
OLEAD 210	Evidence-Based Leadership 3 Credits	In evidenced-based leadership, students will learn how to use strong information and facts to increase the likelihood of success of leadership in organizations. In particular, this course starts by examining different kinds of ev
OLEAD 220	Emotional, Social, and Cultural Intelligences and the Implications for Leadership 3 Credits	This course focuses on emotional intelligence, social, cultural intelligence competencies used to develop the leadership capacity to be self-aware, understand oneself and others, and to work across cultural differences to effe
OLEAD 230	Leadership Across Industries 3 Credits	Leadership across industries compares and contrasts leadership in different types of industries. In this course students will learn about the various types of organizations and examine why leadership in those organizations ha
OLEAD 409	Leadership Development: A Life-Long Learning Perspective 3 Credits	The course examines the continuing influence of social and environmental factors in shaping leadership and leadership development. OLEAD (LER) 409 Leadership Development: A Life-Long Learning Perspective (3)(BA) Thi
OLEAD 410	Leadership in a Global Context 3 Credits	This course explores the science and practice of leadership around the globe through pertinent scholarly literature and related instructional resources. OLEAD 410 Leadership in a Global Context (3) (IL)(BA) This course meets
OLEAD 411	Women and Leadership 3 Credits/Maximum of 3	Skills and competencies needed for effective leadership may change/vary from one era to another, one culture to another and one industry to another. Researchers and leaders themselves do not agree on a definition of "leac
OLEAD 464	Communication Skills for Leaders in Groups and Organizations 3 Credits	Theory- and research-based communication skills for leaders dealing with work-related problems in contemporary groups and organizations. LHR 464 Communication Skills for Leaders in Groups and Organizations (3)(BA) Th
OLEAD 465	Collective Decision Making 3 Credits	Application of theories of decision making to work-related issues in groups and organizations requiring collective resolution and action. LHR 465 Collective Decision Making (3)(BA) This course meets the Bachelor of Arts deg
OLEAD 495	OLEAD Internship 1-12 Credits/Maximum of 12	Supervised practicum in organizational leadership.
OLEAD 496	Independent Study 1-18 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
OLEAD 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
PNG 301	Introduction to Petroleum and Natural Gas Engineering 3 Credits/Maximum of 3	The first part of the course will introduce the student to the design and implementation of the systems used in the extraction of oil and gas, including terminology and basic calculations in drilling engineering, geology, produc
PNG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PNG 405	Rock and Fluid Properties 3 Credits	Reservoir rock properties, rock and fluid properties (interaction between rock and fluids), flow behavior in reservoir, and fluid properties. The objective of this course is to introduce students to basic reservoir rock and fluid pro
PNG 406	Rock and Fluid Laboratory 1 Credits	Systematic study of oil reservoir rocks and fluids; their interrelation applied to petroleum engineering.
PNG 410	Applied Reservoir Engineering 3 Credits	The broad course objectives are to introduce and implement techniques for analysis and prediction of reservoir performance by use of material balance and steady and non-steady state flow equations. Some specific objecti
PNG 411	Introduction to Petroleum and Natural Gas Extraction 1 Credits	Introduction to the design and implementation of the systems used in the extraction of oil and gas. Not intended for petroleum and natural gas engineering majors.
PNG 420	Applied Reservoir Analysis and Secondary Recovery 3 Credits/Maximum of 999	P N G 420 Applied Reservoir Analysis and Secondary Recovery (3) This course addresses two major issues in petroleum engineering: water influx and water flooding. The displacement of oil or gas by water is a complicated
PNG 425	Principles of Well Testing and Evaluation 3 Credits	This course examines the mathematical basis for pressure analysis. Both theory and the practice of pressure testing techniques are considered. The objectives are to: 1) Understand fundamentals of pressure transient analysi
PNG 430	Reservoir Modeling 3 Credits	PNG 430 is a senior-level undergraduate class where the student explores the fundamentals of hydrocarbon reservoir simulation as the area of reservoir engineering in which computer power becomes essential for predicting
PNG 440W	Formation Evaluation 3 Credits	Formation Evaluation covers the characterization of oil and gas reservoir formations and methods for quantifying the volume of hydrocarbon resources therein. The course focuses on the petrophysical interpretation of wirelin
PNG 450	Drilling Engineering 3 Credits	PNG 450: Drilling Engineering covers the design and analysis of oil-field drilling operations and equipment. This course addresses a critical issue in petroleum and natural gas engineering: how to drill and complete oil and ga
PNG 451	Drilling Laboratory 1 Credits	PNG 451: Drilling Laboratory covers common practices in well-control procedures and measurement of drilling fluid properties. This course serves as the laboratory component for PNG 450. Students will apply the concepts
PNG 456	Hydraulic Fracturing Analysis 1 Credits/Maximum of 1	Industry professionals teach hydraulic fracture design and analysis.
PNG 457	Pump Systems for Oil and Gas Production 1 Credits/Maximum of 1	Industry professionals teach about sucker-rod pump technology.

PNG 458	Assessment, Classification, and Reporting of Reserves and Resources 1 Credits/Maximum of 1	Industry professionals teach how to define and estimate reserves.
PNG 459	Well Control Certification 1 Credits/Maximum of 1	Using the most advanced simulator system, industry professionals teach students how to avoid and resolve operational difficulties. Students who successfully complete the course receive a certificate.
PNG 475	Production and Completions Engineering 3 Credits	This course starts with the single phase flow in porous media and then followed with the multi-phase flow in porous media and pipes. Hence a basic understanding of the fluid flow and different flow regimes are required to fo
PNG 480	Surface Production Engineering 3 Credits	Analysis and evaluation of surface production processes, fluid separation, storage, measurement, treating, custody transfer, transmission, disposal, corrosion, and other operations. P N G 480 Production Process Engineerin
PNG 482	Production Engineering Laboratory 1 Credits	Measurement and analyses of the physical and chemical properties of hydrocarbon fluid systems in a production environment. P N G 482 Production Engineering Laboratory (1) The task of production engineers is to optimiz
PNG 488	Unconventional Wells 3 Credits/Maximum of 3	The course starts with a general overview of different types of unconventional reservoirs and their geological and petrophysical properties. Then, due to the significance of natural fractures in economic production from these
PNG 490	Petroleum and Natural Gas Engineering Capstone Design 3 Credits	PNG 490 serves as the capstone design experience for Petroleum and Natural Gas Engineering majors. As such, students will integrate knowledge acquired in other PNG courses and apply it toward the design of a field deve
PNG 491	Capstone Design in Drilling and Completions 1 Credits	Application of the concepts of reservoir, production, drilling and completions, and economics to petroleum engineering design projects. Engineering design by definition is the integration of knowledge and skills acquired thro
PNG 492	Petroleum Engineering Capstone Design 1 Credits	Integration of petroleum and natural gas engineering concepts to project design. Engineering design by definition is the integration of knowledge and skills acquired through experience, reading and formal instruction into a fi
PNG 494	Thesis 1-6 Credits/Maximum of 6	A problem in petroleum engineering involving review of the literature and experimental data obtained in the field or laboratory.
PNG 494H	Thesis 1-6 Credits/Maximum of 6	A problem in petroleum engineering involving review of the literature and experimental data obtained in the field or laboratory.
PNG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
PNG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHIL 1	The Big Questions 3 Credits	This course plunges students into the deepest philosophical questions: Why is there something rather than nothing? Can I be sure about anything? What is the purpose of life? Is morality real or conventional? Can the exister
PHIL 2	Individuals in Society 3 Credits	This course provides a philosophical introduction to pressing social and political issues. We will ask, for example, what justifies having a government; whether inequality is ever justified; what obligations citizens have toward
PHIL 3	Ethical Life 3 Credits	This course offers students an overview of ethical issues, moral reasoning, and questions concerning the good and flourishing life for individuals and groups. It engages the work and critical interpretation of major figures in m
PHIL 4	The Human Condition 3 Credits	This course introduces central philosophical questions about the lives we humans live: Can our lives have meaning, and does their value depend on it? Does each of us have a true self to be discovered, or a shared human na
PHIL 5	Film and Philosophy 3 Credits	This course serves both as an introduction to philosophy through critical viewing of film, and as an introduction to film aesthetics and the discussion of art experience, the nature of creativity and beauty, and the role of film ar
PHIL 6	Literature and Philosophy 3 Credits	This course serves as an introduction to philosophy through the critical and analytic reading of popular, classic, and insightful literature - novels, plays, poetry, and creative non-fiction - from both Western and Non-western au
PHIL 7	Asian Philosophy 3 Credits	This class is an introduction to the major intellectual philosophical traditions of Asia: Hinduism, Buddhism and Zen Buddhism, Jainism, Confucianism and Neo-Confucianism, and Taoism. It proceeds through careful study of
PHIL 8	Gender Matters 3 Credits	Feminism is one approach to addressing systematic oppressions of both women and men. This course examines various feminist philosophical approaches to issues such the construction of gender, sex, and sexuality, the na
PHIL 9	Race, Racism, and Diversity 3 Credits	This course offers a critical examination of the ways we today often think about race and racism, the latter considered in its cultural, institutional, and systemic forms, as well as in its individual manifestations as slurs, beliefs,
PHIL 10	Critical Thinking 3 Credits	This course provides a critical awareness of the function, nature, strengths, and weaknesses of argumentation in its various real-world and academic forms and contexts. Students examine the construction of persuasive argu
PHIL 11	Science and Truth 3 Credits	This course investigates the nature of science, scientific reasoning, and the "scientific method." The value of objectivity and explanation will be considered in relation to our knowledge of the world and ourselves. Students wil
PHIL 12	Symbolic Logic 3 Credits	This course is an introduction to symbolic logic. Logic is the science of correct reasoning, and symbolic logic is a particular branch of logic that studies correct reasoning using a formal or arti¿cial language. In this course, stu
PHIL 13	Nature and Environment 3 Credits	What is nature, and what is the appropriate human relationship with it? What are our obligations toward non-human animals, endangered species, or ecosystems? Is contemporary industrial society alienated from nature, and

PHIL 14	Love and Sex 3 Credits	This course examines the dominant philosophical and theological theories of love and sexuality in the Western world; historical and recent critiques of those theories; and the relevance of gender, race/ethnicity, and sexual ori
PHIL 15	How to Live 3 Credits	Philosophy considers how best to live. This is valuable, since there is a lot that is uncertain. Should one mostly eliminate superstition and fear and practice mental tranquility? Or control bodily desires and practice endurance'
PHIL 60N	Philosophy and 1960s Counterculture 3 Credits	Explores some of the central philosophical ideas, values, and social scientific theories that motivated, attended, and/or were presupposed by signature events, projects, and persons typically associated with the 1960s Count
PHIL 83	First-Year Seminar in Philosophy 3 Credits	First-year seminars in philosophy provide critical introductions to fundamental philosophical issues and problems. Each first-year seminar develops a broad overview of historical and contemporary thought through readings,
PHIL 98	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHIL 102	Existentialism 3 Credits	This course introduces students to the evolution of Existentialism, with its kernel in mid-nineteenth century reflection on Christianity's loosening grip on culture, its influence by the early-twentieth century experience of war's
PHIL 103	Ethics 3 Credits	Through reading and discussion of classical and contemporary sources, this course provides an introduction to the basic questions of ethics, the major currents in traditional ethical theory (virtue ethics, deontology, conseque
PHIL 103H	Honors Ethics 3 Credits	Through reading and discussion of classical and contemporary sources, this Honors course provides an introduction to the basic questions of ethics, the major currents in traditional ethical theory (virtue ethics, deontology, c
PHIL 103W	Ethics 3 Credits/Maximum of 3	Through reading and discussion of classical and contemporary sources, this WAC course provides an introduction to the basic questions of ethics, the major currents in traditional ethical theory (virtue ethics, deontology, con
PHIL 105	Philosophy of Law 3 Credits	This course surveys philosophical questions concerning any legal system. What counts as a law? Do judges interpret or create new law? How can laws be unfair? What kinds of punishment, if any, are appropriate? When is c
PHIL 105H	Honors Philosophy of Law 3 Credits	This course surveys philosophical questions concerning any legal system. What counts as a law? Do judges interpret or create new law? How can laws be unfair? What kinds of punishment, if any, are appropriate? When is c
PHIL 106	Business Ethics 3 Credits	Business ethics is not just about CEOs behaving badly. Even if sweatshops treat humans poorly, do they deserve thanks for their labor market expansion? Must corporate trustees seek only profit for their shareholders, or als
PHIL 107	Philosophy of Technology 3 Credits	This course surveys different views about technology: what counts as technology, what role it plays in society and human development, what benefits it might promote, and what obvious or hidden effects deserve criticism. T
PHIL 108	Social and Political Philosophy 3 Credits	This course studies philosophical views about large-scale human relations: in groups, communities, populations, nations, and countries. By studying prominent philosophers and positions it investigates the following kinds of
PHIL 108H	Honors Social and Political Philosophy 3 Credits	This course studies philosophical views about large-scale human relations: in groups, communities, populations, nations, and countries. By studying prominent philosophers and positions it investigates the following kinds of
PHIL 108W	Social and Political Philosophy 3 Credits	This WAC course studies philosophical views about large-scale human relations: in groups, communities, populations, nations, and countries. By studying prominent philosophers and positions it investigates the following kir
PHIL 109	Aesthetics 3 Credits	Aesthetics is the philosophical study of our experience of certain natural and artistic objects that incite pleasure or displeasure in us, and which we judge to be beautiful, ugly, or sublime. Aesthetics asks: What makes someth
PHIL 110	Philosophy of Science 3 Credits	This course examines core philosophical questions about science, scientific reasoning and scientific practice. What is scientific method, and what role do deduction, induction and abduction play in it? How does scientific me

PHIL 113	Philosophy of Literature 3 Credits	This course investigates the expression of philosophical ideas in literary form and, likewise, literature's contributions to a philosophical inquiry into fundamental questions of human existence. Its central themes may include th
PHIL 114	Feminist Philosophy 3 Credits	This course familiarizes students with concepts and challenges in feminist philosophies. Students will investigate the intersections of gender, race, sexuality, class, and other dimensions of identity through feminist analysis of
PHIL 115	Philosophy and Education 3 Credits	This course surveys the core philosophical questions that arise when thinking about education and teaching: What ought people to learn? How are instruction and experience related? What counts as knowledge and truth? H
PHIL 118	Environmental Philosophy 3 Credits	This course explores current environmental problems and human development in the context of historical and contemporary views of the relation of humans and nature. It examines differing conceptions of nature¿s value, hu
PHIL 119	Ethical Leadership 3 Credits	Leaders, in whatever context, make difficult decisions, distribute scarce resources, direct and influence the conduct of others, and represent the goals of the enterprise they lead. Thus they ought to exemplify prudence, fairne
PHIL 120N	Knowing Right from Wrong 3 Credits	"Knowing Right from Wrong" provides a comprehensive understanding of the nature of moral ideas, beliefs, and behaviors in contemporary contexts. What roles do nature and nurture play in the development of moral sensib
PHIL 122	Philosophy of History 3 Credits	This course surveys the core questions that arise when thinking about history, the relevance of the past, and the writing of history: How can we know history? What does it explain and what does it teach? Are those who don¿
PHIL 123	Media Ethics 3 Credits	This course surveys the core philosophical questions connected with mass media: What is newsworthy? What is the whole story, and what makes it true? How ought media's form influence the power of its content? What au
PHIL 124	Philosophy of Religion 3 Credits	This course surveys perennial philosophical questions connected with religion: What is God, deity, or divinity? What is the nature and significance of religious experience? Is it rational to hold religious beliefs? How persuasive
PHIL 125	Theories of Knowledge 3 Credits	This course surveys the core questions in epistemology: What do we mean when we claim to know something, as opposed to merely having an opinion about it? What sorts of things, if anything, are ultimately knowable? Wh
PHIL 125W	Theories of Knowledge 3 Credits	This WAC course surveys the core questions in epistemology: What do we mean when we claim to know something, as opposed to merely having an opinion about it? What sorts of things, if anything, are ultimately knowable
PHIL 126	Metaphysics 3 Credits	This course considers key concepts, problems, and figures in metaphysics, the investigation into the nature of reality. We will ask the deepest questions about what exists and how things relate to one another on a fundamen
PHIL 126W	Metaphysics 3 Credits	This WAC course considers key concepts, problems, and figures in metaphysics, the investigation into the nature of reality. We will ask the deepest questions about what exists and how things relate to one another on a fund
PHIL 127	Philosophy of Mind 3 Credits	The course wonders, "What is a mind?" - especially in its relationship to the brain, the person, and the world. We study whether consciousness defines a mind, what limitations if any subjectivity places on the scientific invest
PHIL 129	Philosophy of Language 3 Credits	Philosophy of language asks the following sorts of questions: What makes a system of symbols a language? What is meaning? How does a term or a symbol refer to an object? In what way is speech also an action? How do
PHIL 131N	BS: Identifying Bias and Falsehood 3 Credits	The course will consider the ways statements are used for aims other than to convey accurate information. This disregard for truth results in the increasingly difficult task of identifying bias and falsehood in the age of informat
PHIL 132	Bioethics 3 Credits	This course surveys core topics in recent bioethics - the study of ethical problems issuing from the use and treatment of human and non-human animals in the research and practice of medicine and biotechnology. It aims to

PHIL 133N	Ethics of Climate Change 3 Credits	Climate change is not only a political, economic, and social crisis, it presents one of the great moral problems of our time. This course will cover the science, policy, and ethics of climate change. It fulfills general science requ
PHIL 134	Food, Values, and Health 3 Credits/Maximum of 3	This course studies the ethical and social issues connected to food, personal and cultural eating habits, body image and ideas of health, and agricultural practices and industrialized food production. We will discuss the follov
PHIL 135	Ethics in Jewish Tradition and Thought 3 Credits	This course takes as its starting point the idea that modern ethical frameworks are deeply rooted in the soil of older traditions. By examining the development of Jewish intellectual traditions and their roots in the Bible, it prov
PHIL 136N	Art and Philosophy in Ancient Greece 3 Credits	Ancient Greece provided Western Civilization much in terms of art and philosophy. The influence of the Greeks can be seen in such areas as architecture, sculpture, concepts of beauty, literature, etc. These are independent c
PHIL 137N	Introduction to Philosophy through Health and Sport 3 Credits/Maximum of 3	Introduction to Philosophy through Health and Sport (PHIL137N). 3 credits. (Inter-Domain), (GH), (GHW) is a general education interdomain course that introduces students to the major branches, ideas, theories, and argumer
PHIL 139	Latino/a Philosophy 3 Credits	This introduction to Latino/a Philosophy covers the historical experience of Latino/a peoples and the impact that those experiences have had and can have on "American" philosophy. It also covers race, class, gender, and et
PHIL 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHIL 198	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHIL 199	Foreign Study--Philosophy 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHIL 200	Ancient Philosophy 3 Credits	This course examines key themes, texts, and persons in ancient Greek philosophy, with the works of Plato and Aristotle at the core. We ask: What did Socrates mean when he said "the unexamined life is not livable by humar
PHIL 201	Medieval Philosophy 3 Credits	This course examines key themes developed by the philosophers from the long millennium between the fall of Rome and the rise of the Renaissance, many of whom responded to ancient Greek philosophy in the context of tl
PHIL 202	Modern Philosophy: 1600-1800 3 Credits	This course surveys major philosophical issues of the seventeenth and eighteenth centuries, a vibrant era of scientific revolution, religious and political upheaval, and Europe's rise to global power. In its quest for a method of
PHIL 203	Nineteenth Century Philosophy 3 Credits	The nineteenth century is a period of political upheaval and ongoing social, cultural, and scientific transformation, shaped in equal parts by the French Revolution and the Industrial Revolution. This transformative character is
PHIL 204	Twentieth Century Philosophy 3 Credits	The 20th century can be characterized as a crisis of foundations, doubt about the ultimate grounding or demonstrability of our beliefs concerning the world and ourselves. So-called continental philosophy sought a ground of
PHIL 205	American Philosophy: 1840-Present 3 Credits	American philosophy comes into its own in the mid-nineteenth century, emancipating itself both from its origins in Protestant religion and from the tutelage of European role-models. The 1840s see the rise of the New Englanc
PHIL 208	Contemporary Philosophy 3 Credits	Treating contemporary philosophy as history encourages us to ask what current ideas are likely to resonate in the future. The course focuses on philosophical work that crosses disciplinary boundaries, addresses new social a

PHIL 233	Ethics and the Design of Technology 3 Credits	Humans have always created artifacts and artificial environments to aid us in our survival and to help fulfill our needs and desires. Moreover, today technology is all pervasive, transforming and conditioning our social and poli
PHIL 242N	Happiness and Well-Being 3 Credits	PHIL 242N : Happiness and Well-Being. 3 credits. (Inter-Domain), (GH), (GS), (BA). This course provides a general introduction to the topics of human happiness and well-being as these topics are both approached from the h
PHIL 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHIL 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PHIL 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHIL 401	American Philosophy 3 Credits	A distinctively American school of philosophy emerged in the early part of the nineteenth century and remains influential in the present day. American transcendentalism, philosophical applications of evolutionary theory (e.g.,
PHIL 402	Seminar in European Philosophy 3 Credits/Maximum of 6	Among the most important movements to emerge in the decades around 1900 are phenomenology (Husserl, Merleau-Ponty) and neoKantianism (Natorp, Cassirer), which make important contributions in metaphysics, epister
PHIL 403	Seminar in Environmental Ethics 3 Credits	How do and should human beings relate to the natural world - and what is the natural world? What moral obligations or considerations for non-human animals, plants, and other parts or features of nature? What do we owe t
PHIL 404	Seminar in the Ethics of Artificial Intelligence 3 Credits	The course provides an overview of the nature and scope of the ethical issues arising from AI-human interaction, together with the philosophical background (in ethics and philosophy of mind) that students need to develop a
PHIL 405	Seminar in Philosophy of Law 3 Credits	This course gives close attention to key themes in the philosophical analysis of legal systems, either historical or contemporary. Relevant issues may include the nature of law and its relation to morality, custom, and politics; t
PHIL 407	Seminar in Philosophy of Technology 3 Credits	The human condition may very well be a technological condition. Developing and refining technology have proven central to cultural and perhaps even evolutionary history, the development of science, our economic practice
PHIL 408W	Seminar in Social and Political Philosophy 3 Credits	This course builds on lower level courses in social and political philosophy (e.g., 108) to provide an in-depth examination of philosophical issues relating to political institutions and social practices. These issues may include c
PHIL 409	Seminar in Aesthetics 3 Credits	Aesthetics examines questions related to the nature of art and beauty as well as the nature of aesthetic judgment and experience. Building on its precursor (PHIL 109), this course explores selected topics in traditional or cont
PHIL 410	Seminar in Philosophy of Science 3 Credits	This course reviews the development of philosophy of science in the past century and studies its development once it turns its attention to modern cosmology and biology in this century. We begin with the Vienna School, wh
PHIL 413	Seminar in Philosophy of Literature 3 Credits	This course builds on its precursor (PHIL 113) to provide a deeper, more focused perspective on specific topics and issues, for example the nature of fiction and its relation to fact, the value of literary works of art (aesthetic, c
PHIL 416	Philosophy of Social Science 3 Credits	This course focuses on the methods and epistemological bases for work in the social sciences, which include any field that focuses on explanations of human behavior, psychology or social activity. Topics include questions
PHIL 418	Seminar in Ethical Theory 3 Credits	This course builds on lower level courses in ethics and value theory (e.g., PHIL 103). It goes deeper into questions of the meaning, justification, and motivational grounding of ethical judgments. Topics may include "normative
PHIL 418W	Seminar in Ethical Theory 3 Credits/Maximum of 6	This course builds on lower level courses in ethics and value theory (e.g., PHIL 103). This class goes deeper into questions of the meaning, justification, and motivational grounding of ethical judgments. Topics may include "n
PHIL 424	Seminar in Philosophy of Religion 3 Credits	This course builds on its precursor (PHIL 124) to provide a deeper perspective on specific topics and issues, typically through discussion of classical or contemporary writings by recognized philosophers of religion. Though t
PHIL 425W	Seminar in Epistemology 3 Credits	The nature of cognition and perception, the conditions of experience, and the justification and truth of belief.
PHIL 426W	Seminar in Metaphysics 3 Credits/Maximum of 6	Examines the nature of reality, the existence of freedom, and the nature of matter, mind, and values.
PHIL 427	Seminar in Philosophy of Mind 3 Credits	The nature of the mind and its relation to the physical world is the focus of this course, which builds on its precursor (PHIL 127). Topics include the definition of consciousness, what constitutes a self, and whether artificial co
PHIL 432	Medical and Health Care Ethics 3 Credits	This course examines ethical, social, legal, and policy issues related to the research, implementation, and practice of medicine, medical technologies, and healthcare. It uses secular ethical theories, frameworks, and concept
PHIL 433	Ethics in Science and Engineering 3 Credits	Ethical issues arising in the practice of science and engineering and their philosophical analysis.
PHIL 435	Science and Religion 3 Credits	This course offers an intensive examination of the complex relationship between religion, science, and philosophy in different traditions and historical periods. How did science and religion emerge as distinct ways of understa
PHIL 437	World Philosophies 3 Credits/Maximum of 6	Philosophical traditions, problems, and authors in African, Asian, Middle- Eastern, Native American, or other non-Western cultures and intellectual traditions.
PHIL 438	Seminar in Feminist Philosophy 3 Credits	This course will explore some of the influential theories and texts in the field of feminist philosophy. Feminist philosophy encompasses a broad range of inquiry, from political and ethical issues to foundational metaphysical ar
PHIL 439	Seminar in Asian Philosophy 3 Credits/Maximum of 6	Exploration of the traditions, problems, and authors of one or more of the philosophical systems of Buddhism, Hinduism, Taoism, and Confucianism.
PHIL 453	Seminar in Ancient Philosophy 3 Credits/Maximum of 6	This course allows intensive study of select authors, traditions, works, or questions from ancient Greek and Roman philosophy. Focal authors may include, for instance, the Presocratics, Socrates, Plato, Aristotle, Epicurus, L
PHIL 455	Seminar in Modern Philosophy 3 Credits/Maximum of 6	This course builds on its precursor (PHIL 202) to focus on specific topics in philosophy between 1600 and 1800. This includes the nature of substance; the mind-body problem; the method of knowledge acquisition; and the t
PHIL 456	Seminar in Nineteenth Century Philosophy 3 Credits/Maximum of 6	This course builds on its precursor (PHIL 203: Nineteenth Century Philosophy) to focus on specific topics and issues of the nineteenth century. These may typically include the moral and practical implications of Kant's critica
PHIL 457	Seminar in Twentieth Century Philosophy 3 Credits/Maximum of 6	This course builds on its precursor (PHIL 204: Twentieth Century Philosophy) to provide a more focused understanding of selected trends, topics, and questions specific to the period. The twentieth century is marked by a pa
PHIL 458	Seminar in Contemporary Philosophy 3 Credits/Maximum of 6	This course will explore some of the influential theories and texts in contemporary philosophy. Contemporary philosophy encompasses a broad range of inquiry, from attention to the treatment of knowledge, reason, and the s
PHIL 460	African American Philosophy 3 Credits	This course will explore central questions and themes guiding the evolution of African American philosophy in the 19th and 20th centuries. Our course will study three different movements from the era. We begin with slavery
PHIL 461	Plato 3 Credits/Maximum of 6	Plato has had, along with his student Aristotle, the greatest influence on the history of Western philosophy of any writer. He synthesized politics and ethics, pedagogy and dialectics, psychology and epistemology, metaphysic
PHIL 468	Jewish Philosophy 3 Credits	This course explores the rich history of Jewish philosophy since the Medieval Ages through to the 20th-century. Attention will be paid to debates about the relation between Judaism and Christianity, ethics and religion, what
PHIL 472	Islamic Philosophy 3 Credits	A survey of major texts from the Islamic philosophical tradition, focusing primarily on the classical period (ninth to twelfth centuries) and its influence on modern thinkers.
PHIL 473	German Idealism 3 Credits/Maximum of 6	Critically examines the philosophy of central German idealists, including Kant, Fichte, Schelling, and Hegel, and its impact on later philosophy.
PHIL 474	Kant 3-6 Credits/Maximum of 6	Critical examination of the metaphysics, epistemology, aesthetics, legal and moral philosophy, and influence of Immanuel Kant.
PHIL 476	Hegel 3-6 Credits/Maximum of 6	Critical examination of the metaphysics, moral theory, epistemology, and philosophy of history of this central figure of 19th-century philosophy.
PHIL 478	Ethics After the Holocaust 3 Credits	The aim of this course is to explore various ways in which philosophers have responded to Auschwitz (a signifier, or name, which is in turn not without controversy and complexity). It will examine, in particular, the promise an
PHIL 479	Critical Theory 3 Credits/Maximum of 6	In this course, the term Critical Theory refers to a distinctive approach to social, cultural, and political theory associated with the Institute for Social Research in Frankfurt am Main, Germany, which was founded in 1923. Mem
PHIL 485	Heidegger 3 Credits/Maximum of 6	Martin Heidegger's masterpiece, Being and Time, is among the fundamental philosophical texts of the 20th century, taking up questions of metaphysics, religion, temporality, ontology, the history of philosophy, language, tec
PHIL 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PHIL 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PHIL 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHIL 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PHIL 499	Foreign Study--Philosophy 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHOTO 99	Foreign Studies--Photo 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHOTO 100	Introduction to Photography 3 Credits	An introduction to the aesthetics, history, and science of photography including practical and critical approaches to the art of photography. PHOTO 100 Introduction to Photography (3) (GA) PHOTO 100 is an introduction to t

PHOTO 101	Culture of Photography 3 Credits	This is a non-technical introductory photography course where students photographically and intellectually examine the role of photography in modern culture. PHOTO 101 expands students' depth of appreciation, knowledg
PHOTO 199	Foreign Studies--Photo 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHOTO 200	Photo Studio I 3 Credits	A beginning level course that explores the fundamentals of photography. PHOTO 200 Photo Studio I (3) PHOTO 200 is a beginning level course focused on the aesthetics and practical application of photography. Employing
PHOTO 201	A Chronological Survey of Photography 3 Credits	A survey of photography's place and influence in a social, cultural, and historical context. ART H 250 A Chronological Survey of Photography (3) This course explores the role played by photography over time in providing un
PHOTO 202	Fundamentals of Professional Photography 3 Credits	This professionally oriented photography course gives students a foundation in the techniques and other competencies relevant to professional photography. PHOTO 202 Fundamentals of Professional Photography is a profe
PHOTO 210	Introduction to Architectural Photography 2 Credits	Exploration of approaches to photographing architectural interiors, exteriors, and architectural models.
PHOTO 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PHOTO 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
PHOTO 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHOTO 299	Foreign Studies--Photo 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHOTO 300	Photo Studio II 4 Credits	An intermediate course that explores advanced processes and applications in digital photography, digital image processing, and photographic inkjet printing. PHOTO 300 Photo Studio II (4) PHOTO 300 is an intermediate co
PHOTO 301	Beyond Photoshop: Techniques in Digital Photographic Imaging 3 Credits/Maximum of 6	Students will learn aspects of photographic image making by capturing, processing, editing, retouching, digital printing, archiving, using digital images in the traditional darkroom, and manipulating of digital photographs with
PHOTO 303	Professional Photography: Studio Technique and Photocomposition 3 Credits/Maximum of 6	PHOTO 303 Professional Photography: Studio Technique and Photocomposition is an intermediate-level problem-based learning class where students acquire practical skills, and learn creative techniques relevant to profess
PHOTO 321N	Flow Visualization: The Art and Physics of Fluid Motion 3 Credits/Maximum of 3	In this course, student will explore techniques for the visualization of the physics of fluid flows including seeding with dyes and particles. Students will also gain technical expertise in a range of flow visualization and photogra
PHOTO 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHOTO 399	Foreign Studies--Photo 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHOTO 400	Digital Photography in the Studio 4 Credits	Concepts and technology of the digital photography studio; large format digital cameras, electronic studio lighting and digital printing. PHOTO 400 Digital Photography in the Studio (4) PHOTO 400 is a wholly digital, in-deptl
PHOTO 401	Fashion Photography 3 Credits/Maximum of 6	Students will learn the primary technical, aesthetic, and stylistic photographic techniques and knowledge required for the creation, presentation, and marketing of professional fashion photographs. The course will additionall
PHOTO 402	Photographic Narratives 4 Credits/Maximum of 8	The development of a photographic project that leads to the creation of narrative visual stories. PHOTO 402 Photographic Narratives (4) PHOTO 402 is a project course in photography focused on the construction of visual n
PHOTO 402H	Photographic Narratives 4 Credits/Maximum of 8	The development of a photographic project that leads to the creation of a handmade book. PHOTO 402 Photographic Narratives (4 per semester/maximum of 8) PHOTO 402 is a project course in photography focused on th
PHOTO 404	Professional Photography Capstone Seminar: Self-Marketing and Professional Prese 4 Credits	PHOTO 404: Professional Photography Capstone: Self-Marketing and Professional Presence is a culminating problem based learning course where students analyze, synthesize, and organize their creative, academic, co-cur
PHOTO 405	Creative Projects in Photography 4 Credits/Maximum of 8	Special individual problems related to photographic vision. PHOTO 405 Creative Projects in Photography (4 per semester/maximum of 8) PHOTO 405 is a project course in photography designed to challenge students and e
PHOTO 406	Product Photography 2 Credits/Maximum of 4	This advanced level course will explore the practices of photographing products for print and product advertising. PHOTO 406 Product Photography (2) This advanced level course will introduce the practice of photographin
PHOTO 407	Portrait Photography 2 Credits/Maximum of 4	This advanced level course investigates contemporary portrait photography and traditional and modern styles of photographic lighting. PHOTO 407 Portrait Photography (2) This advanced level course will investigate what p
PHOTO 410	Photographing Motion and Athletic Events 2 Credits/Maximum of 4	A practicum course in photographing sports and athletic events.
PHOTO 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PHOTO 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
PHOTO 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHOTO 499	Foreign Studies--Photo 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PT 100	Physical Therapist Assistant--Introduction 3 Credits	This course is a general introduction into the field of physical therapy. The definition, role and function of physical therapists (PTs), physical therapist assistants (PTAs), and other health care providers as members of the healt
PT 100S	Physical Therapist Assistant-Introduction 3 Credits	This course is a general introduction into the field of physical therapy. The definition, role and function of physical therapists (PTs), physical therapist assistants (PTAs), and other health care providers as members of the healt
PT 120	Human Musculature and Functional Anatomy 2 Credits	This course is designed to give the learner a clear understanding of the locations, actions, and innervations of muscles in the human body and provide a foundation for learning and applying the principles of muscle strength t
PT 150	Physical Therapist Assistant Procedures I 2 Credits/Maximum of 2	This course is an introductory study of the general principles for physical therapy interventions including massage, thermal modalities, therapeutic light, ultrasound, and compression therapies. Introductory information regard
PT 160	Therapeutic Exercise I 3 Credits	This course provides an introduction to the principles of exercise in the management of disease and injury which will help prepare the student for the application of therapeutic exercise during Physical Therapy clinical affiliatio
PT 201	Licensure Preparation for the PTA 1 Credits	Preparation for the national PTA licensure examination. P T 201 Licensure Preparation for the PTA (1) This course is an elective course for PTA students, in preparation for the national licensure examination. The course will co
PT 202	Pediatric PT 1 Credits	A study of physical therapy as it applies to pediatric patients. P T 202 Pediatric PT (1) This course is an elective course for those Physical Therapists Assistant students interested in further study in pediatric physical therapy.
PT 204	Seminar in Physical Therapy 1 Credits	Specialized physical therapy topics investigated in the framework of clinic visitations and presentations by clinical experts. P T 204 Seminar in Physical Therapy (1) The purpose of P T 204 is to provide Physical Therapist Ass
PT 205	Human Musculature 1-2 Credits	Comprehensive review of Human Musculature. P T 205 Human Musculature (1) This course is an elective course for those PTA students interested in a review of human musculature. The course is designed to provide advan
PT 250	Physical Therapist Assistant--Procedures II 3 Credits	The student will be introduced to the basic concepts and principles of spinal traction, neuromuscular excitation, nociception, electrical currents, and electromagnetic fields. The student will develop satisfactory skills in applyi
PT 260	Therapeutic Exercise--II 3 Credits	Advanced principles and application of exercise in the treatment of disease and injury will be explored. Students will learn concepts and skills necessary to promote healing through exercise and will be able to apply these ski
PT 270	Pathophysiology 5 Credits	This course is designed to give the PTA student a working knowledge of the physiology of disease and conditions commonly seen in physical therapy. Basic signs, symptoms, causes, and processes of disease and condition
PT 270W	Pathophysiology 5 Credits	This course is designed to give the PTA student a working knowledge of the physiology of disease and conditions commonly seen in physical therapy. Basic signs, symptoms, causes, and processes of disease and condition
PT 271	Pathophysiology I 3 Credits	This course is designed to give the PTA student a working knowledge of the physiology of disease and conditions commonly seen in physical therapy. Basic signs, symptoms, causes, and processes of disease and condition
PT 271W	Pathophysiology I 3 Credits	This course is designed to give the PTA student a working knowledge of the physiology of disease and conditions commonly seen in physical therapy. Basic signs, symptoms, causes, and processes of disease and condition
PT 272	Pathophysiology II 2 Credits	This course is designed to give the PTA student a working knowledge of the physiology of disease states and conditions commonly seen in physical therapy. Basic signs, symptoms, causes, and processes of disease and co
PT 280	Rehabilitation 5 Credits	This course introduces the basic principles, diagnoses, impairments, and treatment interventions utilized by the PTA in the rehabilitation setting. Participants will review basic skills necessary for treating rehabilitation patients
PT 280W	Rehabilitation 5 Credits	This course introduces the basic principles, diagnoses, impairments, and treatment interventions utilized by the PTA in the rehabilitation setting. Participants will review basic skills necessary for treating rehabilitation patients
PT 281	Rehabilitation-1 2 Credits	This course introduces the basic principles, diagnoses, impairments, and treatment interventions utilized by the PTA in the rehabilitation setting. Participants will review basic skills necessary for treating rehabilitation patients
PT 282	Rehabilitation-2 3 Credits	In this course, neuroanatomy and neurophysiology will be reviewed and principles of specific neuro-rehabilitation techniques, and neuromotor development will be explored. This course will address rehabilitation techniques f
PT 282W	Rehabilitation-2W 3 Credits	In this course, neuroanatomy and neurophysiology will be reviewed and principles of specific neuro-rehabilitation techniques, and neuromotor development will be explored. This course will address rehabilitation techniques f
PT 285	Clinical Reasoning for the PTA 2 Credits	This course will provide PTA students with opportunities to synthesize, prioritize, and apply rehabilitation principles from many different PTA courses. Students will learn strategies to combine data collection skills, intervention

PT 290	Professional Issues in Clinical Practice 2 Credits	This course is an introduction to the professional issues related to the physical therapist assistant's role in the current health care environment. The course is designed to foster professional development of the physical therap
PT 290W	Professional Issues in Clinical Practice 3 Credits	This course is an introduction to the professional issues related to the physical therapist assistant's role in the current health care environment. The course is designed to foster professional development of the physical therap
PT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
PT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PT 384	Applied Kinesiology 3 Credits	The focus of PT 384, Applied Kinesiology, is to incorporate anatomical structure of the human body, principles of biomechanics, kinetics, and kinematics with the study of human motion and mobility. Areas of instruction inclu
PT 395E	Physical Therapist Assistant--Practicum I 3 Credits	PT 395E is the beginner level practice of physical therapist assistant skills in a clinical setting under the direction and supervision of a licensed physical therapist and/or physical therapist/physical therapist assistant team. Co
PT 395F	Physical Therapist Assistant--Practicum II 4 Credits	PT 395F is the intermediate level practice of physical therapist assistant skills in a clinical setting under the direction and supervision of a licensed physical therapist and/or physical therapist/physical therapist assistant team.
PT 395G	Physical Therapist Assistant--Practicum III 4 Credits	P T 395G is the terminal clinical experience of the practice of physical therapist assistant skills under the direction and supervision of a licensed physical therapist and/or physical therapist/physical therapist assistant team cu
PT 395H	Physical Therapist Assistant--Practicum II Part 1 2 Credits	PT 395H is the intermediate level practice of physical therapist assistant skills in a clinical setting under the direction and supervision of a licensed physical therapist and/or physical therapist/physical therapist assistant team
PT 395I	Physical Therapist Assistant--Practicum II Part 2 2 Credits	PT 395 I is the advanced intermediate level practice of physical therapist assistant skills in a clinical setting under the direction and supervision of a licensed physical therapist and/or physical therapist/physical therapist assis
PHYS 1	The Science of Physics 3 Credits	PHYS 1 The Science of Physics (3) (GN)(BA) This course meets the Bachelor of Arts degree requirements. Introduction to the basic concepts of physics at a conceptual level for students in non-technical majors. This course p
PHYS 10	Physics Behind the Headlines 3 Credits	Select topics in modern physics with emphasis on understanding science related articles in the news (For students in non-mathematical fields.) PHYS 10 Physics Behind the Headlines (3) (GN) Introduction for non-science ma
PHYS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PHYS 114	Sound and Light for Educators 4 Credits/Maximum of 4	Waves, sound, and light concepts highlighted by evidence-based explanations and scientific discourse in preparation for K-6 science teaching. This course has two main focus areas: physics content typically addressed in el
PHYS 150	Technical Physics I 3 Credits/Maximum of 3	Elementary treatment of topics in mechanics, heat, wave motion, and sound leading toward an understanding of technical applications. PHYS 150 Technical Physics I (3) (GN) (BA) This course meets the Bachelor of Arts degr
PHYS 151	Technical Physics II 3 Credits/Maximum of 3	PHYS 151 Technical Physics II (3) (GN) provides an algebra-based introduction to electricity, light, and modern physics exemplifying scientific method and leading toward an understanding of technical applications. It is the se
PHYS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PHYS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHYS 211	General Physics: Mechanics 4 Credits	PHYS 211 General Physics: Mechanics (4) (GN)(BA) This course meets the Bachelor of Arts degree requirements. Calculus-based introduction to classical mechanics, including such topics as: measurement, dimensional ana
PHYS 211H	General Physics: Mechanics 4 Credits	Calculus-based introduction to classical mechanics, including such topics as: measurement, dimensional analysis, motion in one-dimension, vectors, motion in 2 and 3 dimensions, relative and circular motion, force and dyna
PHYS 212	General Physics: Electricity and Magnetism 4 Credits	PHYS 212 General Physics: Electricity and Magnetism (4) (GN)(BA) This course meets the Bachelor of Arts degree requirements. Calculus-based introduction to classical electricity and magnetism, including such topics as, el
PHYS 212H	General Physics: Electricity and Magnetism 4 Credits/Maximum of 4	Calculus-based introduction to classical electricity and magnetism, including such topics as, electric charge and electric fields, Gauss's law, electric potential, capacitance, current, resistance, and circuits, magnetic fields, an
PHYS 213	General Physics: Fluids and Thermal Physics 2 Credits	Calculus-based study of the basic concepts of fluids and sound, heat, kinetic theory, and entropy. PHYS 213 General Physics: Fluids and Thermal Physics (2) (GN)(BA) This course meets the Bachelor of Arts degree requirem
PHYS 214	General Physics: Wave Motion and Quantum Physics 2 Credits	Calculus-based study of the basic concepts of wave motion, geometrical optics, interference phenomena, photons, wave mechanics, and the structure of matter. PHYS 214 General Physics: Wave Motion and Quantum Phys
PHYS 230	Introduction to Relativity 3 Credits	Introduction to special and general relativity including space-time diagrams and relativistic kinematics, length contraction, time dilation, equivalence principles, curved space and cosmology. PHYS 230 Introduction to Relativi
PHYS 237	Introduction to Modern Physics 3-4 Credits	Relativity and quantum theory with applications to selected topics in atomic, molecular, solid state, or nuclear physics. This course covers much of the modern physics curriculum focusing on special relativity, the concepts a
PHYS 237H	Introduction to Modern Physics 3 Credits	Relativity and quantum theory applied to selected topics in atomic, molecular, solid state, and nuclear physics. PHYS 237H Introduction to Modern Physics (3) The course covers much of the modern physics curriculum inclu
PHYS 250	Introductory Physics I 4 Credits	PHYS 250 Introductory Physics I (4) (GN)(BA) This course meets the Bachelor of Arts degree requirements.Algebra-based introduction to classical mechanics, including such topics as one- and two-dimensional motion, vecto
PHYS 251	Introductory Physics II 4 Credits	Selected topics in light, electricity, and magnetism. PHYS 251 Introductory Physics II (4) (GN)(BA) This course meets the Bachelor of Arts degree requirements. Algebra-based introduction to classical electricity and magnetisr
PHYS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHYS 296H	Study of the Historical Background, Formulation and Consequences of Einstein's 1 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHYS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PHYS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHYS 337	Introduction to Quantum Information Science and Engineering 3 Credits	This course will introduce quantum mechanics from the perspective of quantum information science and engineering, focusing on two-level systems and the concepts of entanglement and decoherence. It will educate studer
PHYS 400	Intermediate Electricity and Magnetism 3-4 Credits	Electrostatics and magnetostatics in vacuum; electrical and magnetic properties of matter; electrodynamics, Maxwell's equations, conservation laws, electromagnetic waves and radiation. PHYS 400 Intermediate Electricity a
PHYS 402	Electronics for Scientists 4 Credits	Circuit and network theory; active devices; amplifiers; introduction to digital electronics; noise theory. PHYS 402 Electronics for Scientists (4) A junior-senior theory/laboratory course providing a survey of modern electronics f
PHYS 406	Subatomic Physics 3 Credits	Introductory treatment of elementary particles, fundamental strong and electroweak interactions, nuclear structure, accelerators, particle detection, nuclear astrophysics.
PHYS 410	Introduction to Quantum Mechanics I 3-4 Credits	Basic postulates; Schrodinger wave equation; stationary states; variational method; scattering in one dimension; orbital angular momentum; hydrogen atom; numerical methods.
PHYS 411	Introduction to Quantum Mechanics II 3 Credits	General theory of angular momentum; approximation methods; scattering theory; radiation theory; applications to atomic, molecular, condensed matter, nuclear and particle physics.
PHYS 412	Solid State Physics I 3 Credits	This course provides an introduction to solid-state physics, which is the study of quantum, thermal, electrical, magnetic and structural properties of solids. Specific topics include crystal symmetry, X-ray structure analysis, lat
PHYS 414	Solid State Physics 3 Credits	Crystal structure; reciprocal lattice; X-ray diffraction; lattice vibrations; thermal properties; free electron gas model; energy bands; semiconductors; magnetism.
PHYS 419	Theoretical Mechanics 3 Credits	Principles of Newtonian, Lagrangian, and Hamiltonian mechanics of particles with applications to vibrations, rotations, orbital motion, and collisions. PHYS 419 / MATH 419 Theoretical Mechanics (3) A second course in class
PHYS 419H	Theoretical Mechanics 3 Credits	Principles of Newtonian, Lagrangian, and Hamiltonian mechanics of particles with applications to vibrations, rotations, orbital motion, and collisions.
PHYS 420	Thermal Physics 3 Credits	Basic postulates of statistical mechanics and thermodynamics, microscopic quantum states and macroscopic parameters; partition functions; Maxwell- Boltzmann and quantum statistics.
PHYS 421W	Research Methods in Physics 3 Credits	Methodology focusing on the theory of measurement and experiment design.
PHYS 430	Introduction to Computational Physics 3 Credits	This course will cover basic techniques for writing computational simulations of systems of interest to physicists. The course will aim to provide tools and techniques necessary for simulating initial value problems, chaotic sys
PHYS 437	Physical implementation of qubits 3 Credits	Introduction to the physical implementation of quantum bits (qubits) based on state-of-the-art technologies. The course will consider issues in quantum information technology from an experimental point of view. The various
PHYS 444	Topics in Contemporary Physics 2 Credits	A course required of all Physics majors, designed to be taken in the third year. Introduces students to modern research areas in physics at Penn State and elsewhere. Provides background on career choices available with an
PHYS 457W	Experimental Physics 3 Credits	An intermediate laboratory course, required of all Physics majors and taken by other students, typically in their third or fourth year, this course provides an introduction to modern laboratory techniques and instrumentation us
PHYS 458	Intermediate Optics 4 Credits	Geometrical and physical optics: theory of lens systems, aberrations, apertures, interference, diffraction, polarization. PHYS 458 Intermediate Optics (4) An intermediate optics course which builds on the wave and optics use
PHYS 462	Applications of Physics in Medicine 3 Credits	Recommended Preparations: (PHYS 212, PHYS 213, PHYS 214,) PHYS 251; Applications of physics in human physiology and in instrumentation for medical diagnosis and treatment. PHYS 462 Applications of Physics in Me
PHYS 465	Network analysis of biological systems 3 Credits/Maximum of 3	The survival of a cell, organism or population in a variable environment depends on mounting specific responses to external stimuli. Each of these responses is governed by the coordinated action of multiple (potentially nume
PHYS 472	Elements of Nuclear Physics and its Applications to Medical Imaging and Treatmen 3 Credits	Introduction to the theory of nuclei, interactions with fast particles, and applications to medical imaging and radiation oncology. PHYS 472 Elements of Nuclear Physics and its Applications to Medical Imaging and Treatments

PHYS 479	Special and General Relativity 3 Credits	Mathematical description, physical concepts, and experimental tests of special and general relativity. MATH 479 / PHYS 479 Special and General Relativity (3) This course is intended as an elective course (within the undergra
PHYS 494	Physics Research Project 1-12 Credits/Maximum of 12	Investigation of an original research problem, including a literature search. Preparation of a formal thesis is optional.
PHYS 494H	Physics Research Project 1-12 Credits/Maximum of 12	Investigation of an original research problem, including a literature search. Preparation of a formal thesis is optional.
PHYS 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PHYS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHYS 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PHYS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PHYS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLANT 129N	Chocolate Worlds 3 Credits	This course will examine the "world" of chocolate throughout human history. First cultivated by the ancient peoples of the Americas and then manufactured by Europeans and Pennsylvanians alike, chocolate has played a pri
PLANT 150S	Plant Science First Year Seminar 2 Credits	Plant 150S is the First Year Engagement course for first-year students in the Department of Plant Science majors of Plant Sciences, Turfgrass Science, and Landscape Contracting at University Park campus. First Year DUS s
PLANT 200	Introduction to Agricultural Crop Growth, Form, and Function 3 Credits	About 12,000 years ago, humans began harvesting their food from the natural biological diversity that surrounded them, resulting eventually to domesticated agricultural crops. Over thousands of years farmers selected for d
PLANT 217	Landscape Soil and Water Management 3 Credits	PLANT 217 Landscape Soil and Water Management (3) PLANT 217 is a course developed to meet the needs of the Landscape Contractors program. This course covers the following topics: Influence of weather on irrigation
PLANT 220	Gardening for Fun and Profit 3 Credits	The objective of PLANT 220 (GN), Gardening for Fun and Profit is to provide students with science-based fundamentals of establishing and maintaining residential landscapes and gardens. The course provides information th
PLANT 240	Fundamentals of Cannabis: An Introduction to the Botany, Cultivation, and Harvesting 3 Credits	Fundamentals of Cannabis provides a broad overview of hemp's natural ecosystem, biology, domestication, phenotypic plasticity, industrial cultivation, and business models within the hemp industry that foster bioeconomic
PLANT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PLANT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLANT 427	Pennsylvania Pesticide Applicator Exam Preparation 1 Credits	Graduates from the Crop Production option within the Plant Sciences Major may desire to have professional licenses related to their anticipated area of employment. This course will assist students as they prepare for the lice
PLANT 428	Certified Crop Advisor Exam Preparation 1 Credits	Graduates from the Crop Production option within the Plant Sciences Major may desire to have professional certifications and licenses related to their anticipated area of employment. This course will assist students as they
PLANT 461	Emerging Issues in Plant Sciences 3 Credits	Emerging Issues in Plant Sciences is a capstone course designed for the Plant Sciences, and is also available to students from other majors. This highly participatory course emphasizes many of the interdisciplinary topics in
PLANT 494	Undergraduate Research 1-6 Credits/Maximum of 6	Independent study directed by faculty supervisor a Plant Science faculty member.
PLANT 494H	Honors Thesis Research 1-6 Credits/Maximum of 6	Independent study directed by faculty supervisor culminating in a Plant Science honors thesis.
PLANT 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PPEM 120	The Fungal Jungle: A Mycological Safari From Truffles to Slime Molds 3 Credits	This course is an introduction to the world of fungi and their impact on humans and the environment around us. Fungi represent one of five or one of sixteen Kingdoms of biological organisms depending on the system used.
PPEM 170N	Plant and Microbial Art 3 Credits	This inter-domain general education course provides a cross-disciplinary platform for plant- and microbe-facilitated creative production and art-mediated scientific learning. The course balances studio art activities with lectu
PPEM 225	Mushroom Cultivation 3 Credits	Students will learn about commercial production of edible mushrooms and how to cultivate them on both a small and commerical scale. PPEM 225 Mushroom Cultivation (3) Pennsylvania's growers account for nearly 2/3 of
PPEM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PPEM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PPEM 300	Horticultural Crop Diseases 3 Credits	The concepts of plant pathology are introduced to describe how plants, the environment, and biotic and abiotic plant pathogens interact over time to cause disease. Understanding these relationships can help to prevent dis
PPEM 318	Diseases of Forest and Shade Trees 2 Credits	Introduction to diagnosis and management of forest and shade tree diseases. PPEM 318 Diseases of Forest and Shade Trees (2) Diseases of Forest and Shade Trees, is a practical, hands-on, lab and lecture course designe
PPEM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PPEM 405	Microbe-Plant Interactions: Plant Disease and Biological Control 3 Credits	Survey of microbe-plant interactions causing plant disease, mechanisms of pathogenesis, disease management, and microbial and molecular biological control strategies. PPEM 405 Microbe-Plant Interactions: Plant Diseas
PPEM 412	Turfgrass Disease Management 3 Credits	PPEM 412 Turfgrass Disease Management (3) This course will provide an introduction to concepts of disease processes in plants and biology of plant pathogens, principles of turfgrass disease diagnosis based on symptom
PPEM 416	Plant Virology: Molecules to Populations 3 Credits	An exploration of the molecular biology and population dynamics of the virus-plant interaction. PPEM 416 Plant Virology: Molecules to Populations (3) This will be the departmental foundation course for plant viruses, one of
PPEM 417W	Mechanisms of Bacterial Pathogenesis in Plants 3 Credits	This course covers the mechanisms that certain bacteria use to infect and cause disease in plants. We will consider the molecular, genetic, biochemical, and physiological systems that are used by plant-pathogenic bacteria
PPEM 425	Biology of Fungi 4 Credits	BIOL 425 / PPEM 425 (4 cr.) is a lecture and laboratory survey of the diversity of Fungi, consisting of two 75-minute lecture and two 180-minute laboratory/field activity periods per week. The course moves from branch to bra
PPEM 427	Mycotoxins: Effects of Fungal Toxins on Human and Animal Health 3 Credits	Description and history of mycotoxicoses. Mycotoxin formation, occurrence, control, economic and social impacts, and regulatory issues. PPEM 427 Mycotoxins: Effects of Fungal Toxins on Human and Animal Health (3) Th
PPEM 430	Air Pollution Impacts to Terrestrial Ecosystems 3 Credits	This course introduces student to air pollutant sources, transport, meteorology, and temporal and spatial trends of pollution dispersion and deposition. An overview is presented of the direct and indirect effects of air pollutant
PPEM 440	Introduction to Microbiome Analysis 3 Credits	The development of next-generation sequencing (NGS) technologies was initially spurred by the desire for a human genome sequence, but these tools are now essential to all areas of biology. The amount of data produced b
PPEM 454	Virus Ecology 3 Credits	Virus ecology describes how viruses interact with their hosts, and how those interactions modulate the hosts' interactions with their environment. PPEM 454 Virus Ecology (3) In this course students will learn about the interp
PPEM 456	Applied Microbial Ecology 3 Credits	This is a lecture based course that will broaden students' understanding of the diverse biotic and abiotic interactions relevant to microbes in diverse environments. In particular, this course focuses on ecological interactions b
PPEM 494	RESEARCH PROJECT 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small-group basis.
PPEM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.

PPEM 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PPEM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PLET 50	Computer Applications for Plastics Engineering Technology 2 Credits	Programming, spreadsheets for the solution of technical problems, internet access for background and support information, formatting professional reports, creating presentations. PL ET 050 Computer Applications for Plast
PLET 205	Introduction to Plastics 3 Credits	Introduction to the plastics industry including fundamental aspects of plastic materials and processing; introduces the chemical influence on mechanical and flow properties of plastic materials. PL ET 205 Introduction to Plas
PLET 206W	Plastic Materials and Properties 3 Credits	Coverage of the most common commercial plastics including their additives, fillers, and fibers; includes common physical tests used to determine material characteristics; writing intensive.
PLET 222	Introduction to Plastics Processing 4 Credits	Introduction to plastic processing methods, materials, tooling, design, and equipment. Safe operation and practices are emphasized. PL ET 222 Introduction to Plastics Processing (4) This course provides an introduction to
PLET 227	Plastics Processing & Statistical Methods 4 Credits	Study of advanced issues in plastics processing, such as design of experiments and SPC/SQC will be covered. PL ET 227 Plastics Processing & Statistical Methods (4) The course is intended to give the students the basic t
PLET 232	Introduction to Part and Tool Design 3 Credits	CAD techniques for designing plastic products and related tooling. PL ET 232 Introduction to Part and Tool Design (3) This is the introductory course for designing plastic parts using CAD solids modeling techniques. This co
PLET 235	Tool Design & Machining 2 Credits	Study of the methods used to create the tooling used in plastics fabrication and the methods of maintaining tooling. PL ET 235 Tool Design & Machining (2) This course will provide the students with an understanding of the c
PLET 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PLET 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
PLET 304	Plastic Material Properties and Applications 3 Credits	Synthesis, polymerization, and characterization of thermoplastic and thermoset polymeric materials. PL ET 304 Plastic Material Properties and Applications (3) This course studies the fabrication of polymers and macromolec
PLET 323	Packaging Processes 3 Credits	In-depth studies and laboratory experiments will be conducted on processes such as blow molding, thermoforming, extrusion, and rotational molding, and other packaging processes. PLET 323 Packaging Processes (3) In th
PLET 330	Advanced Tooling & Rheology 4 Credits	Tooling design strategies are developed considering a material's physical and rheological influences on processing and part formation. PL ET 330 Advanced Tooling & Rheology (4) This course is intended to allow the studen
PLET 345	Heat Transfer 3 Credits	Fundamentals of heat transfer including conduction, convection, and radiation. PL ET 345 Heat Transfer (2) The course is intended to allow the student to develop the ability to conceptually evaluate heat transfer problems, a
PLET 350	Design of Plastic Parts 4 Credits	Designing plastic parts utilizing CAD, FEA, and CAE technologies for the design and for structural, dimensional, and process evaluation and optimization. PL ET 350 Design of Plastic Parts (4) The educational object of this c
PLET 366	Fluid and Thermal Sciences 3 Credits	Fundamentals of thermodynamic principles, fluid statics, and fluid dynamics. PL ET 366 Fluid and Thermal Sciences (3) This course is intended to develop the student's ability to conceptually evaluate thermal or fluid probler
PLET 380	Introduction to Plastic Medical Devices 1 Credits	Introduction to plastic medical devices and their manufacture. Also covers the regulatory requirements of plastic medical devices. PL ET 380 Introduction to Plastic Medical Devices (1) This course serves as the introductory
PLET 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
PLET 464	Plastics Failure Analysis 3 Credits	Fundamentals of Plastics Materials Process and Design Failure Analysis. PL ET 464 Plastics Failure Analysis (3) This course is intended to give the student an introduction to failure analysis for plastic articles. Course objectiv
PLET 466	Thermoplastic Composites 3 Credits	This class will explore both well-established and emerging composite plastic systems, including the basic chemistries and driving forces to explain composite material properties from micro to nanoscale composite systems.
PLET 468	Rapid Commercialization 3 Credits	Techniques to help get plastic products to market quicker and to build solids and surface modeling skills. PL ET 468 Rapid Commercialization (3) The educational objective of this course is to develop the student's ability in u
PLET 481	Plastic Product Development 3 Credits	This course provides students with an in-depth overview of the integrated new product development process. PL ET 481 Plastic Product Development (3) Current product development trends have moved toward an integrat
PLET 482	Medical Product Development 1 Credits	This course provides students with medical device development requirements and processes. The course is to be taken in conjunction with PL ET 481 as both courses will utilize a semester project to invent and design a ne
PLET 483	Plastics in Medical Applications 3 Credits	This course focuses on plastics materials and properties and how they meet the unique medical application and device requirements. PL ET 483 Plastics in Medical Applications (3) This course studies plastics materials in m
PLET 484	Medical Manufacturing Methods 3 Credits	This course provides instruction in the methods and practices used in the manufacturing of plastic devices in the medical industry. PL ET 484 Medical Manufacturing Methods (3) This course provides instruction in the metho
PLET 494	**SPECIAL TOPICS** 1-12 Credits/Maximum of 12	No description
PLET 494A	Plastics Projects 1-12 Credits/Maximum of 12	Supervised student activities on research and/or design projects identified on an individual or small group basis. A specific title may be used in each instance and will be entered on the student's transcript.
PLET 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica or internships. Written and oral critique of activity required.
PLET 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PLET 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
PLET 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
POL 1	Level One Polish A 4 Credits	This course will provide an introduction to and basic understanding of Polish language. The objective of the course is to provide a comprehensive introduction to Polish language. Students are able to command a functional v
POL 2	Level One Polish B 4 Credits	The course will build on the basic knowledge of reading, grammar and vocabulary acquired in the introductory course to impart fluency and command over written and oral expression; and to introduce further points of basic
POL 3	Level Two Polish A 4 Credits	The course lays equal emphasis on reading, writing, listening and speaking. Nuanced points of grammar and syntax are introduced. More complex reading and cultural exposure includes folk tales, poems, and essays selecte
POL 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
POL 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
POL 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLSC 1	American Politics: Principles, Processes and Powers 3 Credits	This course examines the American democracy by looking at the dynamic interaction between the founding ideals of the United States government, the institutions established by the Constitution, and the ongoing contest fo
PLSC 1H	American Politics: Principles, Processes and Powers 3 Credits	This course examines the American democracy by looking at the dynamic interaction between the founding ideals of the United States government, the institutions established by the Constitution, and the ongoing contest fo
PLSC 1S	American Politics: Principles, Processes and Powers 3 Credits	This course examines the American democracy by looking at the dynamic interaction between the founding ideals of the United States government, the institutions established by the Constitution, and the ongoing contest fo
PLSC 3	Comparing Politics around the Globe 3 Credits	This course examines the variety of ways that people seek and wield power around the world. Through cross national comparison and individual country analysis, the course considers different forms of democratic and autho

PLSC 3H	Comparing Politics around the Globe 3 Credits	This course examines the variety of ways that people seek and wield power around the world. Through cross national comparison and individual country analysis, the course considers different forms of democratic and autho
PLSC 7N	Contemporary Political Ideologies 3 Credits	This course provides a comparative analysis of the beliefs, values and ideas that constitute the major political ideologies in contemporary politics, such as liberalism, conservatism, socialism, anarchism, fascism and environm
PLSC 10	Scientific Study of Politics 3 Credits	This course introduces students to both the scientific study of politics, and the way that a scientific approach to political phenomena advances our understanding of political actors, events, processes, and institutions. It provi
PLSC 14	International Relations 3 Credits	What causes war and what makes it stop? When is international aid or military intervention effective? Why are some states wealthy and others plagued by poverty and underdevelopment? How does international trade affect
PLSC 14H	International Relations Honors 3 Credits	What causes war and what makes it stop? When is international aid or military intervention effective? Why are some states wealthy and others plagued by poverty and underdevelopment? How does international trade affect
PLSC 17N	Introduction to Political Theory 3 Credits	This course focuses on the concepts, principles and values used to explain, justify and challenge the organization and use of collective power. It introduces the field of political theory as an intellectual tradition that combines
PLSC 17W	Introduction to Political Theory 3 Credits	This WAC course focuses on the concepts, principles and values used to explain, justify and challenge the organization and use of collective power. It introduces the field of political theory as an intellectual tradition that com
PLSC 60N	Society and Cultures in Modern Israel 3 Credits	Israel is often portrayed in media and popular society in incomplete or distorted terms. In some cases, it is presented as a troubled, violent, dangerous place, as a place permeated by long-standing hatred between Jews and
PLSC 83S	First-Year Seminar in Political Science 3 Credits	Exploration of current topics of interest in political science, international relations, and/or political theory. Every first-year seminar in Political Science focuses on several of the major questions of the field. Many of these quest
PLSC 90	Introduction to Security 3 Credits	The study of security issues is more critical than ever, considering a series of global trends. Those reach from violent radicalization to arctic transformation, as well as include technology trends. All of those have an impact on
PLSC 111	Debating the Purpose of Government 3 Credits	Students will become acquainted with a variety of political theories and debate their usefulness in considering contemporary political controversies in the US. and another country. PLSC 111 Debating the Purpose of Governm

PLSC 112N	Ethics in Citizenship, Politics, and Government 3 Credits	This course meets the Bachelor of Arts degree requirements. It is often said that politics is a dirty business, meaning that unethical behavior is prevalent in politics. But this is often said with a twinge of disappointment, somet
PLSC 114	Winning Political Support Through Persuasion 3 Credits/Maximum of 3	The purposes of this course are to introduce students to the comparative study of political systems, some of their parts, and the functioning of those parts, and to develop a capacity for effective, ethical citizenship. Real-wor
PLSC 120N	State, Society, and Public Policy 3 Credits	Alexis de Tocqueville called association the ¿mother science¿ of politics and saw voluntary associations as a pillar of American democracy. These associations must compete in what might be called a moral economy of publ
PLSC 125	Pennsylvania Government and Politics 3 Credits	Pennsylvania political processes; executive, legislative, judicial decision- making, and electoral behavior; selected public policies.
PLSC 132	The Politics of International Intolerance 3 Credits	Introductory course emphasizing psychological, historical, and political aspects of global intolerance towards minorities. PLSC 132 The Politics of International Intolerance (3) (GS;IL)(BA) This course meets the Bachelor of Art
PLSC 140	Contemporary Controversies in International Relations 3 Credits	An overview of contemporary topics in international relations. PLSC 140 Contemporary Controversies in International Relations (3) (GS) PLSC 140 investigates changes in the international system by focusing on critical ongo
PLSC 155	Understanding Tyranny 3 Credits	Exploration of the rationales, methods, and consequences of highly repressive political regimes through novels, films, and memoirs.
PLSC 177N	Politics and Government in Washington DC 1-3 Credits	The course centers on a Spring Break trip to Washington DC, with students meeting on campus before and after the trip. PLSC 177N Politics and Government in Washington DC (1-3) This course centers on a Spring Break tr
PLSC 178	Organized Crime, Law, and Politics 3 Credits	This course will address laws, politics, and policies related to organized crime issues. PL SC 178 Organized Crime, Law, and Politics (3) This course addresses the role and impact of organized crime in US laws, politics, and
PLSC 183N	The Cold War in Literature, Politics, and History 3 Credits	The course will focus on the history and politics of the Cold War and its depiction in literature and film, especially in British and American literature, but also in that of other countries. Students will read political science and his
PLSC 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PLSC 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLSC 200N	Government and Politics of Europe 3 Credits	This course introduces students to the politics and governing institutions of European countries through an historical and comparative perspective. It examines the development of the political systems in Europe during the 20
PLSC 201N	Politics & Religion: Controversies Around the World 3 Credits	Exposes students to the relationship between religion and politics around the world and examines trends in the influence of religion and religious parties on governments and public policy. The relationship and trends will be i
PLSC 202	American Public Policy 3 Credits	This course will examine how policy decisions are made in American politics, including factors that affect policy choices, the policymaking process, and evaluation of existing policies. Instructors will choose several different p
PLSC 209	Democratic Leadership 1 Credits	Penn State has a special opportunity to create new leaders who learn deliberative approaches to politics and public life. This one-credit course provides a background for this approach to democratic leadership, and it also p
PLSC 210N	Rights in America 3 Credits	This course is an introduction to the emergence and enforcement of rights in the United States. The course provides an overview of how rights have been codified into law and interpreted by the courts. The primary focus is h

PLSC 220	Politics of the Developing World 3 Credits	The developing world refers to countries with a weak or emerging industrial economy; low per capita income; and low scores on measures of human well-being such as health, education, and human rights security. The deve
PLSC 222N	Science and Politics of the Female Athlete 3 Credits	The purpose of this course is to explore gender differences in sport and politics that emerge from physiology, culture, history, politics, and policy. The engagement of women in sport has unique physiological considerations a
PLSC 223N	Ethnic and Racial Politics 3 Credits	This course explores the roles race and ethnicity play in politics and government. Students will learn how social groups organize to achieve political goals, how and why opposition to those goals arises in plural societies, and
PLSC 230	American Political Campaigns and Elections 3 Credits	Campaigns and elections are the mechanisms used to place people into office in American government. Electoral outcomes are the product of rules that govern who can run and participate in voting, the choices made by ca
PLSC 235	Environmental Politics 3 Credits	This course explores the political implications of climate change and the increasing scarcity of many of the world's resources. It provides students with an understanding of the actors and issues driving debates over decision
PLSC 267N	Government and Politics of the Middle East 3 Credits	This course provides an introductory overview of the politics of the Middle East. It introduces students to the political development of Middle Eastern countries and the construction of the Middle Eastern state system through
PLSC 290N	Comparative Violence: Political and Criminological Perspectives 3 Credits	This course will cater to the interests of anyone who has ever asked oneself: what are the origins of individual and mass violence and why some parts of the world or one's own country have more of it than others? This cours
PLSC 291	Introduction to Peace and Conflict Studies 3 Credits	This course is an examination of how human beings get into and out of violent conflicts, and how conflicts transform. It sizes up the costs of war, examines the processes and challenges of peace, and reflects on the charact
PLSC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PLSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PLSC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLSC 300	Introduction to Independent Thesis Research 1-3 Credits	Introduction to research design, principles of social science research, and development on honors theses research proposal.
PLSC 306	Senior Thesis Writing Workshop 1-3 Credits/Maximum of 3	This seminar supports the writing and editing of senior honors theses. PL SC 306H Senior Thesis Writing Workshop (1-3)(BA) This course meets the Bachelor of Arts degree requirements. This is a workshop for honors stude
PLSC 308	Introduction to Political Research 3 Credits	Introduction to conceptualization, research design, and measurement in political research. PL SC 308 Introduction to Political Research (3)This course introduces students to the research process in political science. The cou
PLSC 309	Quantitative Political Analysis 3 Credits	Data analysis and statistical applications in political research, including data processing; inferential statistics; contingency analysis; correlation and regression; multivariate analysis. PL SC 309 Quantitative Political Analysis (3
PLSC 309H	Quantitative Political Analysis 3 Credits	This course introduces students to research design and quantitative analysis techniques used in political science with an aim toward developing transferrable skills for future coursework in the political science major, especial
PLSC 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PLSC 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PLSC 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PLSC 403	The Legislative Process 3 Credits	Analysis of the policy process within the legislative system; the effects of environmental factors on policy alternatives and legislative decision making.
PLSC 404	Analyzing Public Policy in the American States 3 Credits	This course provides students with the tools to empirically evaluate policy proposals and outcomes in the American states. PL SC 404 Analyzing Public Policy in the American States (3) Developing public policies is the proxi
PLSC 405	The American Presidency 3 Credits	An examination of the selection methods for, and powers of, the American presidency, as well as other chief executives.
PLSC 405H	The American Presidency 3 Credits	An examination of the selection methods for, and powers of, the American presidency, as well as other chief executives.
PLSC 408	Democracy and Its Impacts 3 Credits/Maximum of 3	This course examines advances in democratization around the globe, and compares the performance of democratic and authoritarian governments. This course examines the impacts of international democracy aid around t
PLSC 409	Democratic Deliberation 3 Credits	Explores the theory and practice of democratic deliberation in elections, town meetings, juries, legislatures, and other public institutions. CAS (PL SC) 409 Democratic Deliberation (3) Many modern democracies have made s
PLSC 410	Strategy and Politics 3 Credits	This course examines political behavior using social choice theory and game theory. PL SC 410 Strategy and Politics (3)(BA) This course meets the Bachelor of Arts degree requirements. Strategic behavior is central to politic
PLSC 412	International Political Economy 3 Credits	The transnational politics of trade, investment, aid, raw materials, and the environment; nation-states, multinational corporations, and the U.N. PL SC 412 International Political Economy (3)(BA) This course meets the Bachel
PLSC 413	The Rise and Fall of the Soviet Union 3 Credits	Background, organization, and operation of the Communist Party and the government of the Soviet Union.
PLSC 414	Dictators and Their Demise 3 Credits/Maximum of 3	Dictators and Their Demise examines the political economy of authoritarian rule. PL SC 414 Dictators and Their Demise (3) Dictators and Their Demise provides a broad exploration about how non-democratic governments t
PLSC 418	International Relations Theory 3 Credits	A survey of traditional and contemporary conceptual frameworks and theoretical approaches for the analysis of international relations.
PLSC 418W	International Relations Theory 3 Credits	A survey of traditional and contemporary conceptual frameworks and theoretical approaches for the analysis of international relations.
PLSC 419	The Bureaucratic State 3 Credits	Overview of structural, technological, decision-making, behavioral, and political subsystems of bureaucracy; emphasis on bureaucratic dynamics within larger environmental, interorganizational contexts.
PLSC 420	State Making 3 Credits	Students learn about how national states arise, expand the territory and population they control, and persist or fail.
PLSC 421	Analysis of International Political Economy 3 Credits	Why and how do governments regulate cross-border flows of goods, capital, and people? What are the benefits and costs of globalization? What are the social tensions resulting from countries' integration into the world eco
PLSC 423	Post-Soviet Politics 3 Credits	Aspects of political transition and institutions of the fifteen Soviet successor republics; emphasis on Russia and republican confederation.
PLSC 424	Topics in Comparative Government and Institutions 3 Credits	Topics in the comparative analysis of representative contemporary Western and non-Western governmental institutions.

PLSC 425	Government and Politics of the American States 3 Credits	Comparative analysis of political processes; executive, legislative, and judicial decision making and behavior; examination of systems functioning; selected public policies.
PLSC 426	Political Parties and Interest Groups 3 Credits	Interest group basis of American politics, analysis of party and group behavior in electoral politics and the policy process.
PLSC 427	Political Opinion 3 Credits	Nature and development of mass attitudes and opinions; political socialization; voting behavior; relation between opinions and public policy.
PLSC 428	Gender and Politics 3 Credits	Gender in politics in the United States and around the world; major areas of women and politics research. PL SC (WMNST) 428 Gender and Politics (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements
PLSC 429	Analysis of Electoral Politics 3 Credits	The new politics, its technology, and the strategic perspectives that underlie it. PL SC 429 Analysis of Electoral Politics (3)(BA) This course meets the Bachelor of Arts degree requirements. This course engages students in th
PLSC 430	Selected Works in the History of Political Theory 3 Credits	Detailed examination and analysis of a selected major work, thinker, or tradition in the history of political theory.
PLSC 430W	Selected Works in the History of Political Theory 3 Credits	Detailed examination and analysis of a selected major work, thinker, or tradition in the history of political theory. PL SC 430W Selected Works in the History of Political Theory (3)The course will examine the tradition of 'liberal
PLSC 431	Ancient, Medieval, and Renaissance Political Theories 3 Credits	Political theories of Plato and Aristotle; selected Greek, Roman, medieval, and Renaissance theorists through Machiavelli.
PLSC 432	Modern and Contemporary Political Theories 3 Credits	Political theories of the seventeenth through the twentieth centuries, including Hobbes, Locke, Rousseau, Marx, Mill, Mosca, Weber, and selected theorists.
PLSC 433	Political Foundations of the Early American Republic 3 Credits	The course introduces students to the major political and philosophical movements that influenced the founders of the early American republic. PL SC 433 Political Foundations of the Early American Republic (3)The course i
PLSC 434	War and Development in Africa 3 Credits	This course will examine the relationship between war and development in sub-Saharan Africa in the post colonial era. PLSC 434 / AFR 434 War and Development in Africa (3) (IL) This course will examine the relationship betv
PLSC 435	Foundations of American Political Theory 3 Credits	Political theories of colonial, revolutionary, and constitutional periods presented through works of selected thinkers and analysis of particular political problems.
PLSC 436	Civil Wars 3 Credits	This course examines factors influencing the onset, duration, severity, termination, recurrence, and consequences of civil wars around the world. PL SC 436 Civil Wars (3) This course provides a broad exploration of the caus
PLSC 437	War in World Politics 3 Credits	Causes, resolution, and consequences of crises and wars; testing theories of conflict using both case and statistical studies.
PLSC 438	National Security Policies 3 Credits	Impact of national security on U.S. government and foreign policy; roles and interaction of President, Congress, government agencies, interest groups.
PLSC 439	The Politics of Terrorism 3 Credits	Analysis of political terrorism as a violent alternative for peaceful change and traditional warfare in the nuclear age.
PLSC 440	Globalization and Its Implications 3 Credits	This course explores the socioeconomic implications of globalization.
PLSC 442	American Foreign Policy 3 Credits	Principles of American foreign policy; processes of policy formulation; roles of the President, Congress, the State Department, and other government agencies.
PLSC 443	Ethnic Conflict in Africa 3 Credits	This course explores the various causes and impacts of ethnic conflicts in the African context.
PLSC 444	Government and the Economy 3 Credits	Interactions of governmental and economic activity in American life. Survey of governmental (national, state, local) promotional, regulatory, and ownership policies.
PLSC 445Y	Politics of Affirmative Action 3 Credits	Examines history, politics, and economics of the use of special programs to advance racial interests in the U.S. PLSC 445Y / AFAM 445Y / LER 445Y Politics of Affirmative Action (3) (US)(BA) This course meets the Bachelor o
PLSC 446	Business and Government Relations 3 Credits	An examination of the interaction between business and government across different types of political systems. PL SC 446 Business and Government Relations (3) This course examines the interaction between business and
PLSC 447	Analysis of Public Opinion and Political Attitudes 3 Credits	This course engages students in the empirical study of public opinion. PL SC 447 Analysis of Public Opinion and Political Attitudes (3) The essence of democracy is popular sovereignty. The voice of the people must be freely
PLSC 449	Psychology of Terrorism 3 Credits	This course examines the fundamental attributes of terrorist psychology, including the motivations, strategies and behaviors of terrorists; the efforts to counter them; and the psychological impact of terrorism on the public. Th
PLSC 450H	Genocide and Tyranny 3 Credits	This course focuses on the conceptualization and socio-political determinants of genocide and tyrannical regimes, with an emphasis on the Holocaust.
PLSC 451	The Politics of Human Rights 3 Credits	This course examines the politics of human rights and repression, focusing on the causes and consequences of state sponsored violence and human rights violations.
PLSC 452	Government and Politics of Central Europe 3 Credits	Politics and society in the Communist Era, the revolutions of 1989, and problems of adjustment to democracy and market.
PLSC 453	Political Processes in Underdeveloped Systems 3 Credits	Comparative analysis of the political, social, and economic problems characteristic of underdeveloped systems.
PLSC 454	Government and Politics of Africa 3 Credits	Contemporary African politics, institutions, and ideologies; patterns of change, social forces, and nation building in selected African states. PLSC 454 / AFR 454 Government and Politics of Africa (3) (IL)(BA) This course meets
PLSC 455	Governments and Politics of Western Europe 3 Credits	Comparative analysis of political and governmental structures of major West European nations; main functions and processes of such structures.
PLSC 456	Politics and Institutions of Latin-American Nations 3 Credits	Social forces and processes, governmental institutions, foreign policies of major states of Latin America.
PLSC 458	Government and Politics of East Asia 3 Credits/Maximum of 3	This course examines the political systems, institutions, and leadership of East Asian countries. This course examines the political systems, institutions, and leadership of East Asian countries. Students will learn about the na
PLSC 459	Culture and World Politics 3 Credits	Role of culture in world politics.
PLSC 460	Science, Technology, and Public Policy 3 Credits	The all-pervasive importance of science and technology policy in modern societies and mechanisms and processes by which it is made.
PLSC 461	Politics of the European Union 3 Credits	This course introduces students to the history, institutions and politics of the European Union. PL SC 461 Politics of the European Union (3) (IL) This course introduces students to the history, institutions and politics of the Eu
PLSC 462	Marxist and Socialist Political Theory 3 Credits	Analysis of major problems and key works in the Marxist and Socialist tradition; dialectical materialism, alienation, class warfare, etc.
PLSC 464	Extractive Industries in Africa 3 Credits	Socioeconomic and environmental impacts of extractive industries in Africa.
PLSC 465Y	Democratization in Asia 3 Credits	A course which identifies components of democracy, such as definitions, measures, datasets, and the democratization process. PL SC (ASIA) 465Y Democratization in Asia (3) (IL) This class is an upper-level seminar on dem
PLSC 466	Political Psychology 3 Credits	An interdisciplinary investigation of the major topics and debates characterizing the subfield of political psychology. PL SC 466 Political Psychology (3) This course offers an interdisciplinary investigation of the major topics a
PLSC 467	International Relations of the Middle East 3 Credits	The international relations of the Middle East, stressing national security policies of regional and outside actors, and major contemporary conflicts.
PLSC 468	Politics and the Media 3 Credits	An examination of how politics and public policy affect and are shaped by the news media, as a political institution, in America.
PLSC 469	Government and Politics of South Asia 3 Credits	This course offers an overview of the politics of modern South Asia with specific focus on Afghanistan, India and Pakistan. ASIA (PL SC) 469 Government and Politics of South Asia (3) (IL) This course provides an overview of
PLSC 471	American Constitutional Law 3 Credits	The origins of judicial review, landmark decisions of the Supreme Court, and their impact on the American form of government.
PLSC 472	The American Legal Process 3 Credits	Analysis of the roles, procedures, and policies characterizing the American legal system.
PLSC 473	American Judicial Behavior 3 Credits	Analyzes behavior of judges and other participants in the legal process; examines how and why courts function as policymaking bodies.
PLSC 474	Civil Liberties and Due Process 3 Credits	Fundamental problems relating to civil liberities and due process.
PLSC 476	Empirical Legal Studies 3 Credits	This course engages students in the empirical study of law and the courts. PL SC 476 Empirical Legal Studies (3) The tools of social science affect both how scholars understand the workings of the judicial system and how
PLSC 477	Sex, Race, & Justice: The U.S. Supreme Court and Equality 3 Credits	The American judicial system has played an active role in policing the rights of disadvantaged groups in American history. In this course, we will draw upon political science and legal approaches to examine the judiciary's ap
PLSC 478	China and the World 3 Credits	This course examines China's economic reform and development and its engagement with the world since 1978. It pays close attention to the interplay of politics and economics. The course first examines the initiation and p
PLSC 479	Nuclear Weapons in International Relations 3 Credits	This course introduces students to the role of nuclear weapons in international relations. It covers the origins of nuclear weapons; the reasons for nuclear proliferation; nuclear deterrence; nuclear strategy; the consequences o
PLSC 480W	Congress and the Presidency 3 Credits	Basic characteristics and processes of the national legislature and executive; roles and interaction of these institutions in the policy process.
PLSC 481	Global Political Economy 3 Credits	This course examines states, markets, power, production, and the relations between the various transnational agents who act in these areas. Students may not receive credit for PL SC 481 and PL SC 412. PL SC 481 Global
PLSC 482	American State and Urban Politics 3 Credits	Explores basic characteristics and processes of American state and urban politics; nature of intergovernmental relations involving these governmental levels.
PLSC 483	Seminar in National Security Policy 3 Credits	This course provides a comprehensive overview of the process of U.S. national security policy - the principles, practices, and participants in the development and implementation of security strategy and policy. It applies theo
PLSC 484W	The Foreign Policy of Soviet Successor States 3 Credits	Relations between Russia and The Newly Independent States (NIS); Russia's relations with selected foreign states and political Institutions; regional impact of the NIS in Baltic, Asian, and Central Asian areas.
PLSC 485	International Migration 3 Credits	International migration relates to the mobility of humans across international borders for protection, settlement, and/or labor. Over the late 20th century, international migration (both viewed as immigration and emigration) has
PLSC 486	International Culture in East Asia 3 Credits	Study of the role of culture in East Asian regional and East-West international relations. ASIA 400 (PL SC 486/HIST 489) International Culture in East Asia (3) (IL)(BA) This course meets the Bachelor of Arts degree requirements

PLSC 487	International Law and Organizations 3 Credits	Major topics and issues of international law with special attention to institutional arrangements (international organizations) through which that law operates. PL SC 487 International Law and Organizations (3) The course is u
PLSC 488	Comparative Public Policy 3 Credits	Comparative methodology and public policy implementation in postindustrial societies; selected case studies of policy output. PL SC 488 Comparative Public Policy (3) Comparative Public Policy is an upper level political sc
PLSC 489	Public Administration 3 Credits	A survey of the major approaches to the management of most governmental agencies. PL SC 489 Public Administration (3) Government Management is a three-credit Political Science course that teaches the role and functi
PLSC 490	Policy Making and Evaluation 3 Credits	Advanced analysis of public policy, emphasizing policy evaluation and the factors that determine policy success and failure.
PLSC 491	Peace and Conflict Studies Seminar 3 Credits	Advanced study of major contemporary issues of peace and conflict; includes anthropological, technological, psychological, and economic perspectives.
PLSC 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PLSC 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PLSC 495	Political Science Internship 1-6 Credits/Maximum of 6	Combining experience in government offices, related agencies, or law firms, with appropriate readings and a research paper/report.
PLSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PLSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PLSC 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PLSC 499	Foreign Study--Government 1-12 Credits/Maximum of 12	Study, in selected foreign countries, of political institutions.
PES 213.00	Polymer Chemistry Lab 2 Credits	This lab is designed to provide a practical and theoretical understanding of polymer synthesis and the analysis of those polymers. Students will prepare different classes of polymers learning techniques of addition and conde
PES 305.00	Fluids/Heat Transfer 3 Credits	This course covers fluid mechanics and heat transfer topics that the Plastic Engineering Science students are most likely to need in their professional lives. Students can gain a basic understanding of energy and energy inter
PES 320.00	Polymer Sustainability 3 Credits	This course will address the problem of environmentally-persistent plastic pollution. The environmental science of plastic pollution, including quantification techniques, consequences for specific ecosystems, and the incorpo
PES 323.00	Rheology Lab 2 Credits	This lab is designed to provide a practical and theoretical understanding of the rheologcal behaviors of thermoplastic polymers, curing kinetics of chemical and physical crosslink polymers, as well as the crystallization kinetic
PES 340.00	Polymer Characterization 2 Credits	The standard techniques used to investigate and identify polymer systems will be discussed in detail. The fundamental theory that drive each technique will be taught, including Braggs law and the the use of Fourier transforr
PES 341.00	Polymer Characterization Lab 1 Credits	This lab will parallel the content taught in PES 340, Materials Characterization. Focus on sample preparation, variables in characterization techniques, and results interpretation will be emphasized. Both neat (unfilled) polymer
PES 351.00	Polymer Processing Lab 1 Credits	This lab covers basic melt processing techniques including injection molding, extrusion, blow molding, thermoforming, compression molding and twin screw extrusion. The course will focus on the relationship between proce
PES 365.00	Processing for Polymer Product Performance 3 Credits	This course is designed to complement the fundamental understanding of viscoelastic polymer behavior both in the melt and in the solid state, with an emphasis on properly considering these properties in quality plastic part
PES 440.00	Failure Analysis and Characterization 3 Credits	This course will teach a responsible, thorough approach to failure analysis of polymer materials and products. In polymer product failure, the root cause analysis requires the engineer to consider material science (compositio
PES 441.00	Failure Analysis Lab 1 Credits	This course will cover the laboratory techniques required to carry out responsible, thorough approach to failure analysis of polymer materials and products. In polymer product failure, the root cause analysis requires the engir
PES 446W	Senior Project 1 1 Credits	Supervised student activities on research and/or design projects identified on an individual or small group basis. The combination of PES 446W, PES 447W and PES 448W fulfills the degree requirement for Writing Across the
PES 447W	Senior Project 2 1 Credits	Supervised student activities on research and/or design projects identified on an individual or small group basis. The combination of PES 446W, PES 447W and PES 448W fulfills the degree requirement for Writing Across the
PES 448W	Senior Project 3 1 Credits	Supervised student activities on research and/or design projects identified on an individual or small group basis. The combination of PES 446W, PES 447W and PES 448W fulfills the degree requirement for Writing Across the
PES 460.00	Polymer Formulation for Processing and Design 3 Credits	This course is designed for senior-level PES students that are prepared to learn the inter-relationships between part design and specifications, processing constraints, and final material formulation requirements. This course
PORT 1	Elementary Portuguese I 4 Credits	For beginners. Grammar, with reading and writing of simple Portuguese; oral and aural work stressed.
PORT 2	Elementary Portuguese II 4 Credits	Grammar, reading, and conversation continued; special emphasis on the language, literature, and life of Brazil.
PORT 3	Intermediate Portuguese 4 Credits	Grammar, reading, composition, and conversation.
PORT 51	Elementary Intensive Portuguese for Graduate Students I 3 Credits	Intensive introduction to Portuguese: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. PORT 051 Elementary Intensive Portuguese for Graduate Students I (3)This i
PORT 52	Elementary Intensive Portuguese for Graduate Students II 3 Credits	Intensive introduction to Portuguese: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. PORT 052 Elementary Intensive Portuguese for Graduate Students II (3)T
PORT 53	Intermediate Intensive Portuguese for Graduate Students 3 Credits	Continued intensive study of Portuguese at the intermediate level: reading, writing, speaking, listening, cultural contexts. PORT 053 Intermediate Intensive Portuguese for Graduate Students (3)This is the third in a series of th
PORT 123	Portuguese for Romance-language Speakers 2-3 Credits	This course offers an introduction to Brazilian Portuguese for students who already have a good grasp of grammar and vocabulary in Spanish, French, Italian, or Latin. This course will cover the topics of the basic language se
PORT 197	Special topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PORT 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PORT 200	Advanced Portuguese via the Arts 3 Credits	This course provides a more detailed study of the Portuguese language that builds upon the grammar, vocabulary, and communicative abilities developed in the basic language sequence. Students will review and extend thei
PORT 210N	Multilingual and Intercultural Communication 3 Credits/Maximum of 6	SPAN 210N Multilingual and Intercultural Communication course will showcase the fundamental components of the intersection of language and culture through humanities and social science. The purpose of this course is to
PORT 297	SPECIAL TOPICS 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PORT 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PORT 365	Imagining Brazilian Cities 3 Credits	This course traces the transformation of Brazilian cities, as represented in literature and the arts, from the modernization projects of the late 19th century through the exponential growth of urban areas in recent decades. Stuc
PORT 397	SPECIAL TOPICS 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PORT 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PORT 405	Advanced Composition and Conversation 3 Credits	The course uses essays, news articles, short stories, music, films, and other cultural materials to review key grammatical concepts, to expand vocabulary, and to deepen understanding of the language. Through these activiti
PORT 473	Luso-Brazilian Cinema 3 Credits	This course studies social, political, economic, and cultural issues in the Portuguese-speaking world through the lens of film. This course meets the Bachelor of Arts degree attributes in Humanities and the International Cultu
PORT 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PORT 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PORT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PORT 496A	**SPECIAL TOPICS** 3-4 Credits	No description
PORT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PORT 497N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course
PSU 1	First-Year Seminar Abington 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 3	First-Year Seminar Altoona 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 5	First-Year Seminar Berks 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 6	First-Year Seminar Business 1-3 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life. PSU 006 First Year Seminar in Business Administration (1-3 crec
PSU 7	First-Year Seminar Behrend 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 8	First-Year Seminar University College 1-3 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life. PSU 008 First-Year Seminar University College (1-3) From a prac
PSU 8T	First-Year Seminar University College 1-3 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life. PSU 008T First-Year Seminar University College (1-3) Proposed

PSU 9	First-Year Seminar Communications 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 12	First-Year Seminar Engineering 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 14	First-Year Seminar Health and Human Development 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 15	First-Year Seminar Liberal Arts 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 16	First-Year Seminar Science 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life.
PSU 17	First-Year Seminar College of Information Sciences and Technology 1 Credits	Facilitate student's adjustment to the high expectations, demanding workload, increased academic liberties, and other aspects of the transition to college life. PSU 017 First-Year Seminar College of Information Sciences and
PSU 18	PSU 18 First-Year Seminar Interdisciplinary and Exploratory 1 Credits	First year seminar for interdisciplinary and exploratory topics.
PSU 97	Special Topics 1-3 Credits	Formal courses given infrequently to explore a topical of special interest in the context of transitioning to university life.
PSYCH 83S	First-Year Seminar in Psychology 3 Credits	Implications of contemporary psychological research and theory. PSYCH 83S First-Year Seminar in Psychology (3) (GS;FYS) (BA) This course meets the Bachelor of Arts degree requirements. Modern science provides perspe
PSYCH 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PSYCH 100	Introductory Psychology 3 Credits	This course is required and foundational for students who are majoring or minoring in psychology and it is a prerequisite for other psychology courses. Psychology is a scholarly discipline, a scientific field, and a professional
PSYCH 100H	Honors Introductory Psychology 3 Credits	Psychology is a scholarly discipline, a scientific field, and a professional activity. Its overall focus is the scientific study of behavior and experience, and of associated mental and physiological processes. As a scholarly discipl
PSYCH 100S	Introductory Psychology 3 Credits	Introduction to general psychology; principles of human behavior and their applications.
PSYCH 105	Psychology as a Science and Profession 3 Credits	Overview of history and methods of psychology as a science and profession; applications and ethical issues in psychology. PSYCH 105 Psychology as a Science and Profession (3)(BA) This course meets the Bachelor of Art
PSYCH 109N	The Psychology of Artistic Creativity 3 Credits	Creativity is an essential component of people's lives. It plays a critical part in advancing our society via art, design, and science. However, what is creativity? What contributes to it? Moreover, how can one become more crea
PSYCH 120N	Knowing Right from Wrong 3 Credits	"Knowing Right from Wrong" provides a comprehensive understanding of the nature of moral ideas, beliefs, and behaviors in contemporary contexts. What roles do nature and nurture play in the development of moral sensib
PSYCH 144	Climate Change: Individual Behaviors and Group Attitudes 3 Credits	PSYCH 144: Climate Change - Individual Behaviors and Group Attitudes is intended to be an introduction to environmental attitudes and behavior research within the social sciences, especially the fields of social and environ
PSYCH 150N	Human Nature: The Science of Extreme Altruism and Violence 3 Credits	Why do humans so readily help strangers in some circumstances and not others? Why does our species have a tragic history of war, genocide, and violence? Just how flexible is our tendency for altruism and violence? Huma
PSYCH 150Q	Human Nature: The Science of Extreme Altruism and Violence 3 Credits	Why do humans so readily help strangers in some circumstances and not others? Why does our species have a tragic history of war, genocide, and violence? Just how flexible is our tendency for altruism and violence? Huma
PSYCH 169N	What it means to be human 3 Credits	This course will investigate the distinctiveness of Homo sapiens, using fossil and non-human animal comparisons to highlight how modern humans are both similar to and different from other species. Basic elements from the

PSYCH 175N	Mental Illness and the Movies 3 Credits	This course serves as an introduction to the integration of psychology and film analysis, with a focus upon mental health. PSYCH 175N / COMM 175N seeks to help students understand the extent to which cinema can influe
PSYCH 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PSYCH 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PSYCH 200	Elementary Statistics in Psychology 4 Credits	This course provides an introduction to the descriptive and inferential statistics commonly used in psychology, and to hypothesis testing as a method of scientific investigation. It also explores the ways in which the assumpti
PSYCH 212	Introduction to Developmental Psychology 3 Credits	Developmental psychology involves the scientific study of the social, emotional, and intellectual changes that enable progression from infancy to adulthood. As part of a scholarly discipline, scientific field, and professional ac
PSYCH 217N	The Science of Human Resilience 3 Credits/Maximum of 3	This course provides a comprehensive understanding of resilience from both a biological and psychological perspective. It provides students with an integrative approach to understand the dynamic interplay between nature
PSYCH 220	Community Psychology 3 Credits	The purpose of this course is to provide an overview of the history and development of Community Psychology as field. In addition, you will be exposed to key concepts and values associated with Community Psychology, a
PSYCH 221	Introduction to Social Psychology 3 Credits	Introduction to Social Psychology discusses how people's thoughts, feelings, and behaviors are influenced by other people (real or imagined). The course will provide an overview of the field, potentially covering such topics
PSYCH 230	Introduction to Psychologies of Religion 3 Credits	This course will act as an overview of the many ways that religious and spiritual beliefs can and do influence our daily lives, including an individual's attitudes, motivations, cognitions, emotions, and behaviors (and vice versa)
PSYCH 231	Introduction to the Psychology of Gender 3 Credits	The focus of this course in general is on the psychological study of gender in historical and contemporary perspective. The historical roots of gender studies in women's studies, as a correction to a traditional focus on male
PSYCH 232	Cross-Cultural Psychology 3 Credits	PSYCH 232 provides a comprehensive overview of cross-cultural research in a broad range of areas including human development, perception, emotion, motivation, social behavior, personality, cognition, and abnormal beha
PSYCH 238	Introduction to Personality Psychology 3 Credits	Personality psychology involves examining theories of human nature and evaluating them in an empirical fashion. Personality psychology begins with the observation that each person is (to paraphrase Harvard psychologists
PSYCH 243	Introduction to Well-being and Positive Psychology 3 Credits	The introduction to well-being and positive psychology involves the application of empirically derived principles of psychology to address everyday experiences and focuses on ways to enhance one's life. More specifically, s
PSYCH 244	Introduction to the Psychology of Human Factors Engineering 3 Credits	Human Factors Psychology is an area of psychology where the overall focus is the scientific study of human behavior and how it can be applied to the use, design and development of products and systems, Students will lea
PSYCH 246N	Human Factors in Design & Art 3 Credits	Within human factors engineering, a critical component to the design of products is understanding the physical and cognitive elements of the human. Within artistic design are fundamental elements to all visual expression. T
PSYCH 253	Introduction to Psychology of Perception 3 Credits	The goal of this course is to give students a detailed introduction to the basic questions in the study of how the energies and information in the external world become part of our immediate experience. This includes questio
PSYCH 256	Introduction to Cognitive Psychology 3 Credits	This course is an introduction to cognition, an area of psychology that investigates the ways in which we acquire, store, create and use knowledge. Cognition includes a wide range of mental processes that are used every da
PSYCH 260	Neurological Bases of Human Behavior 3 Credits	An introduction to biopsychology, emphasizing the structure and function of the human brain. BB H (PSYCH 260) 203 Neurological Bases of Human Behavior (3) The nervous system provides the biological underpinning of b
PSYCH 260A	Neurological Bases of Human Behavior 3 Credits	Biological Psychology is an area of psychology where the overall focus is the scientific study of behavior and experience, and underlying associated neurological and physiological processes. This course provides an overvie
PSYCH 261	Introduction to Psychology of Learning 3 Credits	This course provides a general survey of the study of learning and behavior. It will focus on investigating historical and current learning perspectives, their respective research methods, and how each contributes to our under
PSYCH 263N	Science of Learning 3 Credits	This course is an introduction to the field of cognitive and learning sciences. It provides an integrative approach to how we learn and remember with particular emphases on the scientific approach to the concepts and applic
PSYCH 268	Animal Minds 3 Credits	This course considers the cognitive and communicative abilities of animals, especially primates, as compared with humans. PSYCH 268 Animal Minds (3) This course covers select topics in animal cognition and communica
PSYCH 269	Evolutionary Psychology 3 Credits	Survey of evolutionary perspectives in current psychological research. PSYCH 269 Evolutionary Psychology (3) (BA) This course meets the Bachelor of Arts degree requirements.This course demonstrates how knowledge an
PSYCH 270	Introduction to Abnormal Psychology 3 Credits	Overview of assessment, causes, and treatments of psychological disorders. PSYCH 270 Introduction to Abnormal Psychology (3)(BA) This course meets the Bachelor of Arts degree requirements. This course focuses on so
PSYCH 281	Introduction to Industrial-Organizational Psychology 3 Credits	This course introduces the concepts and methods used to study people within and as they relate to the world of work. This is a survey course that provides an introduction to many topics ranging from determining what indiv
PSYCH 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PSYCH 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PSYCH 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PSYCH 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
PSYCH 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PSYCH 300	Honors Course in Psychology 1-6 Credits/Maximum of 6	Individual study and seminar in selected phases of psychology.
PSYCH 301M	Honors Research Methods in Psychology 4 Credits	This is an advanced undergraduate-level research methods course for honors students. The course will emphasize the basics of research (generating researchable ideas, hypothesis testing, scientific writing, reliability and val
PSYCH 301W	Basic Research Methods in Psychology 4 Credits	Introduction to methods of psychological research, with special attention to hypothesis formation and testing, threats to validity, and data presentation.
PSYCH 370	Psychology of the Differently-Abled 3 Credits	This course familiarizes students with the needs and abilities of people with varying physical challenges through academic and experimental exercises. PSYCH 370 Psychology of Differently-Abled (3) (US) In 1991 President
PSYCH 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PSYCH 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PSYCH 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PSYCH 404	Principles of Measurement 3 Credits	This is an introductory course about properties of test scores such as reliability and validity. In addition, the course focuses on the construction and evaluation of measurement instruments used in educational and psychologi
PSYCH 406W	Advanced Research Projects in Psychology 4 Credits	Advanced methodology focusing on the logic and practice of research culminating in the completion of a student designed research project.
PSYCH 407	Advanced Research Methods in Psychology 3 Credits	Advanced methodology focusing on the logic and practice of research in a selected content area of psychology.
PSYCH 408	Program Evaluation 3 Credits	Examination of the theories and practice of program evaluation; emphasis on applied work utilizing a wide range of evaluation approaches. PSYCH 408 Program Evaluation (3) This course will introduce the student to the bas
PSYCH 410	Child Development 3 Credits	Study of the psychology of the growing person from conception through adolescence, focusing more on periods up to middle childhood. PSYCH 410 Child Development (3) PSYCH 410 Child Development is intended for un
PSYCH 412	Adolescence 3 Credits	Physical, cognitive, and personality development during adolescence.
PSYCH 413	Cognitive Development 3 Credits	Development of reasoning and related cognitive skills, such as perception and language.
PSYCH 414	Social and Personality Development 3 Credits	Development of social and personality attributes.
PSYCH 414H	Social and Personality Development 3 Credits	Development of social and personality attributes.
PSYCH 415	Topics in Developmental Psychology 3 Credits	Special topics in developmental psychology.
PSYCH 416	Development Throughout Adulthood 3 Credits	Processes of development and change of behavior from early adulthood through old age, emphasizing theory, method, and empirical research.
PSYCH 419	Psychology and a Sustainable World 3 Credits	Students study relationships between humans and the natural world and psychological factors contributing to environmental problems and sustainable solutions. PSYCH 419 Psychology and a Sustainable World (3) This cou
PSYCH 420	Advanced Social Psychology 3 Credits	In depth study of selected research areas in human social behavior.

PSYCH 421	Self and Social Judgment 3 Credits	Individual's perceptions, evaluations, and decision-making strategies about themselves, others, and social situations or issues.
PSYCH 422	Human Sexuality 3 Credits	Psychological influences on human sexual behavior such as love, sexual orientation, gender, intercourse, contraception, sexually transmitted diseases, dysfunctions, and paraphilias. PSYCH 422 Human Sexuality (3) PSYCH
PSYCH 423	Social Psychology of Interpersonal/Intergroup Relationships 3 Credits	In-depth study of relationships among individuals (e.g., intimate relationships) or groups (e.g., prejudice, cooperation, competition, aggression, and negotiation).
PSYCH 424	Applied Social Psychology 3 Credits	Application of social psychological theories and research methods to field settings and to the study of social issues.
PSYCH 425	Psychology of Human Emotion 3 Credits	Reviews, critiques, and applies major historical and contemporary psychological theories of emotion experience, understanding, and expression.
PSYCH 426	Language and Thought 3 Credits	Relations between language and cognition; cognitive implications of normal and impaired language development; cognition and bilingualism. LING (PSYCH 426) 429 Language and Thought (3)(BA) This course meets the Bac
PSYCH 427	L1 Acquisition 3 Credits	How children learn their first language; psycholinguistic aspects of lexical, syntactic, semantic, and phonological development. LING 446 (PSYCH 427) L1 Acquisition (3) (BA) This course meets the Bachelor of Arts degree re
PSYCH 432	Multicultural Psychology in America 3 Credits	This course focuses on the central role of culture, race, and ethnicity in the human condition.
PSYCH 434	Psychology of Gaming 3 Credits	Upper level course examining the core psychological principles as they apply to the topic of games. GAME 434 / PSYCH 434 Psychology of Gaming (3) This course looks at how the field of psychology can be applied to und
PSYCH 436	Humanistic, Existential, and Religious Approaches to Psychology 3 Credits	Existential, humanistic, and religious approaches to the psychology of experience, consciousness and will.
PSYCH 438	Personality Theory 3 Credits	Personality theories and their application to social and personality development and personality dynamics.
PSYCH 439	History and Systems of Psychology 3 Credits	Historical antecedents to scientific psychology; development of contemporary psychological theories and research areas from the formal establishment of psychology.
PSYCH 441	Health Psychology 3 Credits	Overview of the field with an emphasis on how psychological research contributes to an understanding of health and behavior.
PSYCH 442	Trauma and Resiliency 3 Credits	This course will provide an overview of the current state of knowledge and research on traumatic stress, resiliency, and treatment.
PSYCH 443	Treatment and Education in Developmental Disabilities 3 Credits	Covers etiology, classification, intervention (treatment and education), ethical and legal issues related to individuals with developmental disabilities.
PSYCH 444	Engineering Psychology 3 Credits	Methods and results of experimental psychology pertinent to problems which involve man-machine relationships.
PSYCH 445	Forensic Psychology 3 Credits	Relations between psychological theory and research and the law, legal processes, and social policy. PSYCH 445 Forensic Psychology (3)(BA) This course meets the Bachelor of Arts degree requirements. This course focuse
PSYCH 448	Psychology of Female Serial Killers 3 Credits	In this course, students will examine means, motives, and makings of female serial killers. We will discuss perpetrators, crimes, and victims to delve into the psychology of the female perpetrator of serial homicide. Factors di
PSYCH 449	Basic Counseling Skills 3 Credits	This course provides an introduction to specific counseling and helping skills used by various counseling/psychotherapy models across the major theoretical orientations. During the course, an emphasis will be placed on the
PSYCH 451	Psychology of Action 3 Credits	Basic and applied science of action, from psychological, computational, and physiological perspectives. PSYCH 451 Psychology of Action (3) In all walks of life, people must adaptively control their physical movements. Wh
PSYCH 452	Learning and Memory 3 Credits	General survey of learning and memory processes as revealed in experimental work with animals and humans.
PSYCH 455	Cognitive Neuroscience 3 Credits	Cognitive Neuroscience strives to understand the brain bases of cognition. This course is intended to provide an overview of the cognitive and neural processes that support major components of cognition such as attention,
PSYCH 456	Advanced Cognitive Psychology 3 Credits	In depth study of complex mental processes: thinking, problem-solving, imagery, symbolic behavior, information-processing, attention, artificial intelligence, and language.
PSYCH 457	Psychology of Language 3 Credits	Overview of psychological research and theory on language processes, including speech perception, word recognition, meaning representation, comprehension, and language acquisition. LING (PSYCH) 457 Psychology of L
PSYCH 458	Visual Cognition 3 Credits	Overview of concepts and methods in cognitive visual-spatial processing.
PSYCH 460	Comparative Psychology 3 Credits	Behavior from standpoint of phylogenetic growth and development; biological implications; comparison of different types of animals, including man.
PSYCH 461	Advanced Conditioning and Learning 3 Credits	An examination of basic learning processes that have been determined within the context of classical, instrumental, and operant learning situations.
PSYCH 462	Physiological Psychology 3 Credits	Study of the biological bases of behavior and experience, including the anatomy and physiology of the brain and nervous system.
PSYCH 464	Behavior Genetics 3 Credits	Survey of gene mechanisms and gene-environment interactions in the determination of behavior; emphasis on deviant human behavior.
PSYCH 466	The Psychology of Evil 3 Credits	This seminar will provide a critical study of evil from a psychological science perspective: how to define evil; popular perceptions about evil; the motivations people have to commit evil acts; the situational and personal factor
PSYCH 467	Psychology of Serial and Mass Murderers 3 Credits	It is essential in understanding human behavior for students to include the darker side, murder - without conscience. This course will enable students to understand the definition of murder, within various classifications of it u
PSYCH 470	Abnormal Psychology 3 Credits	Causes, dynamics, symptoms, and treatment of neuroses, psychoses, personality disorders, and other psychological disorders of adulthood.
PSYCH 471	Psychology of Adjustment and Social Relationships 3 Credits	Theory and application of psychological principles to problems in personal and social adjustment.
PSYCH 472	Human Development, Health, & Education From A Global Perspective 3 Credits/Maximum of 3	Intended to address the University's global community objectives and provide scholarly background on human development in other cultures.
PSYCH 473	Behavior Modification 3 Credits	Principles of advanced behavior modification techniques.
PSYCH 474	Psychological Intervention in Childhood 3 Credits	Psychology of personal relationships in school situations.
PSYCH 475	Psychology of Fear and Stress 3 Credits	Description and evaluation of major trends in research on stress and fear in humans and other animals.
PSYCH 476	Child Psychopathology 3 Credits	Etiology, diagnosis, and facilitation of adjustment of the intellectually disabled, gifted, physically handicapped, and emotionally disturbed child.
PSYCH 477	Mental Health Practicum with Children 3 Credits	Overview of interventions for children at risk for mental health disorders; emphasis on intervention strategies, program evaluation, and applied skills.
PSYCH 478	Clinical Neuropsychology 3 Credits	Overview of functional human neuroanatomy and clinical neuropsychology, with emphasis on origin, assessment, and treatment of human brain damage.
PSYCH 479	The Psychology of Gender 3 Credits	Theories and research on gender differences and gender roles. Emphasis on women's and men's current positions in society.
PSYCH 480	Advanced Mental Health Practicum with Children 3 Credits	This course involves a continuation and extension of the training and practicum work initiated in PSYCH 477 Mental Health Practicum with Children. The advanced training provided in this course extends understanding of int
PSYCH 481	Introduction to Clinical Psychology 3 Credits	Diagnostic precedures, treatment approaches, occupational settings, and ethical considerations relevant to the profession of the clinical psychologist.
PSYCH 482	Selection and Assessment in Organizations 3 Credits	Background in personnel testing, performance measurement, selection strategies, with emphasis on validity and measurement reliability.
PSYCH 484	Work Attitudes and Motivation 3 Credits	Survey of theory and research with respect to attitudes, morale, and motivation of employees and management.
PSYCH 485	Leadership in Work Settings 3 Credits	Review of research and application of behavior principles in the areas of management and supervision.
PSYCH 488	Ethics in Behavioral Sciences and Education 3 Credits	This course provides an overview of ethical and legal issues related to behavioral sciences and education research and practice. The purpose of the course is 1) to teach identification of ethical issues based upon relevant et
PSYCH 489	Professional Development in Psychology 1 Credits	Develop post-graduation plan for use of psychology major; develop professional presentation style.
PSYCH 490	Senior Seminar in Psychology 3 Credits	Capstone experience for senior psychology majors; review of current research literature; topics vary.
PSYCH 491	Honors Thesis 3 Credits/Maximum of 3	An opportunity to pursue an advanced research thesis or project to integrate studies within psychology.
PSYCH 492	Current Topics in Psychology 3 Credits	Current topics addressing significant contemporary developments in psychology.
PSYCH 493	Senior Thesis 3-6 Credits/Maximum of 6	Supervised senior thesis research in psychology.
PSYCH 494	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PSYCH 494H	Research Projects 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
PSYCH 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
PSYCH 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PSYCH 496A	**SPECIAL TOPICS** 1-6 Credits	No description
PSYCH 496B	**SPECIAL TOPICS** 3 Credits	No description

PSYCH 496F	**SPECIAL TOPICS** 1-6 Credits	No description
PSYCH 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
PSYCH 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PSYCH 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
PHP 410	Public Health Preparedness for Disaster and Terrorist Emergencies I 3 Credits/Maximum of 3	Analyzes the history of terrorism and explores the preparation and response to specific terrorist threats, natural disasters, and conventional catastrophes. HLS 410 Public Health Preparedness for Disaster and Terrorist Emerg
PUBPL 120N	State, Society, and Public Policy 3 Credits	Alexis de Tocqueville called association the ¿mother science¿ of politics and saw voluntary associations as a pillar of American democracy. These associations must compete in what might be called a moral economy of publ
PUBPL 197	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PUBPL 201	Introduction to Homeland Security 3 Credits	An introduction to homeland security, and defense, with a focus on policy, legal issues, organization, and administration. PUBPL 201 Introduction to Homeland Security (3) Introduction to Homeland Security provides a basel
PUBPL 222N	Science and Politics of the Female Athlete 3 Credits	The purpose of this course is to explore gender differences in sport and politics that emerge from physiology, culture, history, politics, and policy. The engagement of women in sport has unique physiological considerations a
PUBPL 304W	Public Policy Analysis 3 Credits	The use of analytic models for describing and explaining the forces shaping policy and the consequence of policy decisions. PUBPL 304W Public Policy Analysis (3) This course provides an overview of the policy process an
PUBPL 305	Leadership Studies 3 Credits	Exposure to a wide range of leadership issues that will bring students to a new understanding of leadership as responsibility.
PUBPL 306	Introduction to Crisis and Emergency Management 3 Credits	An introduction to emergency management in mitigating, preparing for, responding to and recovering from hazards. PUBPL 306 Introduction to Crisis and Emergency Management (3) The course offers an overview of the fiel
PUBPL 419	Race and Public Policy 3 Credits	Seminar format course in which sociological theory and research are applied to current race policy issues. The course examines a number of different aspects of race relations and public policy, including the social and biolog
PUBPL 471	Economic Inequality and Public Policy 3 Credits	Why is the United States among the most unequal affluent democracies and what role does public policy play in this? What policies successfully reduce wealth and income inequalities? How does economic inequality feed b
PUBPL 475	Critical Infrastructure Protection 3 Credits	This course provides knowledge about protection of critical infrastructure as an aspect of homeland security. PUBPL 475 Critical Infrastructure Protection (3) Critical Infrastructure Protection provides a definition of critical inf
PUBPL 476	Homeland Security Intelligence 3 Credits/Maximum of 3	The Homeland Security Intelligence course provides a depth of knowledge of key intelligence issues for homeland security professionals.
PUBPL 481	Seminar in Environmental Policy 3 Credits	Fundamentals of evolution; impacts on natural resources; interaction of environmental issues, current decision-making process policy, enforcement mechanisms; future actions.
PUBPL 482	Seminar in Health Policy 3 Credits	Introduction to policy analysis of issues of current interest and importance to public administrators in the health industry.
PUBPL 483	Seminar in National Security Policy 3 Credits	This course provides a comprehensive overview of the process of U.S. national security policy - the principles, practices, and participants in the development and implementation of security strategy and policy. It applies theo
PUBPL 490	Seminar in Public Policy 3 Credits/Maximum of 99	A survey of the major policy issues, actors and institutions involved in the policy-making system of contemporary society. (May be repeated for credit.)
PUBPL 495	Internship 1-12 Credits/Maximum of 12	Experience in a public service agency related to knowledge gained through academic course work, reading, and discussion.
PUBPL 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
PUBPL 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
PPOL 490	Crime Policy 3 Credits	This course focuses on criminal justice policy and the factors that influence policy development and implementation. CRIM 490 Crime Policy (3) This class will study crime and criminal justice in the context of law and the de
QMM 492	Introduction to Engineering Design Principles 3 Credits	Engineering principles including different engineering fields, graphics, design, solid modeling and failure analysis.
QMM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
QC 450	Quality Control and Quality Improvement 3 Credits	Review of quality control and improvement methods including SPC applications, acceptance sampling, regression analysis, and design of experiments.
RETHS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RETHS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RADSC 101	Radiographic Introduction and Procedures/Lab I 4 Credits	Radiology history, basic radiation protection principles, medical terminology, introduction to radiography and radiographic procedures/lab. As is consistent with the core courses in the Radiography program, a passing grade
RADSC 102	Radiographic Procedures/Lab II 4 Credits	Continuation of Radiographic Procedures/Lab I to include finish appendicular skeleton, axial skeleton and introduction to skull anatomy and positioning.
RADSC 103	Radiographic Procedures/Lab III 3 Credits	Continuation of Radiographic Procedures/Lab II to include digestive, urinary, and biliary systems and facial bone work.
RADSC 110	Patient Care in Radiologic Sciences 3 Credits	This course includes the basic concepts of patient care, including consideration for the physical and psychological needs of the patient and the family. Routine and emergency patient care procedures are addressed from the
RADSC 204	Radiographic Exposure I 3 Credits	This course establishes a knowledge base in factors that govern and influence the production and recording of radiographic images. Topics include the importance of imaging standards, discussion of technique problem-solv
RADSC 205	Radiographic Exposure II 3 Credits	This course is a continuation of Radiographic Exposure I, with emphasis on electronic imaging, image formation, quality assurance, & related areas. As is consistent with the core courses in Radiological Sciences, students m
RADSC 206	Advanced Radiographic Procedures 3 Credits	Emphasis on specialized positioning and advanced radiographic procedures; includes introduction to cross-sectional anatomy. As is consistent with the core courses in the Radiography program, a passing grade for enrolled
RADSC 207	Registry Review 2-4 Credits/Maximum of 4	Registry Review includes material from all radiological science courses, with emphasis on National Certification Examination, and career planning.
RADSC 210W	Radiographic Pathology 3 Credits	RADSC 210W Radiographic Pathology (3) A writing-intensive study of the basic fundamentals of pathology (disease process) with emphasis placed on radiographic presentation. Material covered includes the basic concepts
RADSC 220	Radiation Biology and Protection 3 Credits	Study the principles of interaction of radiation with living systems, effects on cells and tissues, biological response, and radiation protection. The content of this course includes the basic fundamentals of radiation interactions
RADSC 230	Radiographic Physics 3 Credits	Basic knowledge of atomic structure, characteristics of radiation, x-ray production, photon interactions, circuitry, imaging equipment and quality control. This course is a requirement of the radiography curriculum and could b
RADSC 295	**SPECIAL TOPICS** 1-2 Credits/Maximum of 2	No description
RADSC 295A	Radiologic Science Clinical Internship I 1.5 Credits/Maximum of 1.5	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295B	Radiological Sciences Clinical Internship II 1 Credits/Maximum of 1	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295C	Radiological Sciences Clinical Internship III 1.5 Credits	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295D	Radiologic Science Clinical Internship IV 1 Credits/Maximum of 1	Supervised off-campus group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295E	Radiologic Science Clinical Internship V 1.5 Credits	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295F	Radiologic Science Clinical Internship VI 1.5 Credits	Supervised off-campus, non-group instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RADSC 295G	Radiologic Science Clinical Internship VI-A 1 Credits	Supervised clinical education activities under the direction of registered radiologic technologists.
RTE 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RTE 301	Railroad Industry Overview and Economic Regulation 3 Credits	This course explores the relationship between railroads and customers, competitors, and the political, regulatory, and economic environment.
RTE 302	Railroad Track Location, Construction and Maintenance 3 Credits	Principles of railroad track location, alignment, elements and safety regulations.
RTE 303	Railroad Operation and Safety 3 Credits	Basics of rail operations, including the role of terminals and safety principles.
RTE 305	Railroad Communications and Signals 3 Credits	Principles of the separation of trains, including signals, interlocking, and communications.

RTE 402	Railroad Operations Practicum 3 Credits	Practicum (lectures, supervised field work, laboratories) exploring practical problems in rail operations and safety.
RTE 403	Railroad Track Practicum 3 Credits	Practicum (lectures, labs, supervised field experiences) exploring the construction and repair of track.
RTE 404	Railroad Mechanical Practicum 3 Credits	Practicum (lectures, labs, supervised field experiences) examining the repair of locomotives and cars.
RTE 406	Railroad Capstone Project 4 Credits	Capstone project to integrate course knowledge in a team-based project.
RTE 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RTE 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
RTE 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RPTM 1	Introduction to Outdoor Pursuits 1.5-3 Credits/Maximum of 12	Introduction to Outdoor Pursuits (KINES 1/ RPTM 1) is a course that is designed to introduce the student to selected outdoor pursuit activities. The selected activities will depend on the time of the year and availability of reso
RPTM 98	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest
RPTM 100A	PGA Tournament Golf A 3 Credits/Maximum of 12	For students enrolled in the PGA Accredited Golf Management Option in RPTM This is a course that will be offered in the fall semester only for students pursuing Professional Golf Management which seeks to provide studen
RPTM 100B	PGA Tournament Golf B 3 Credits/Maximum of 12	For students enrolled in the PGA Accredited Golf Management Option in RPTM This is a course that will be offered in the spring semester only for students pursuing Professional Golf Management which seeks to provide stu
RPTM 100S	Introduction to Golf Management 2 Credits	First year seminar for students enrolled in the Professional Golf Management option of RPTM. RPTM 100S Introduction to Golf Management (2) This course is designed to provide 1st year students enrolled in RPTM - Profess
RPTM 101	Introduction to Recreation Services 3 Credits	Introduction to discipline and exploration of professional career models/ paths, historical development of profession, expectations and opportunities in recreation services. The primary objective of this course is to provide stu
RPTM 102A	PGA Golf Operations Best Practices 3 Credits/Maximum of 12	RPTM 102A is a course designed to take a deep look into the success of some of the world's best golf operations, including but not limited to facility design and management, business planning, customer experiences, sales
RPTM 115	Leadership Development in Snowsports 3 Credits	Leadership Development in Snowsports develops students understanding and skills in becoming a Snowsports industry professional. The course focuses on integrating knowledge across core business areas in Snowsport a
RPTM 120	Leisure and Human Behavior 3 Credits	Leisure and Human Development introduces global concepts regarding leisure and health, from historical and contemporary perspectives, including forces shaping leisure behavior, and relationships among leisure, the enviro
RPTM 120S	Leisure and Human Behavior 3 Credits	Leisure and Human Development introduces global concepts regarding leisure and health, from historical and contemporary perspectives, including forces shaping leisure behavior, and relationships among leisure, the enviro
RPTM 140	Outdoor School Field Experience 2 Credits/Maximum of 6	To provide students with educational leadership skills and teaching opportunities working with children in an outdoor residential camp setting. RPTM 140 Outdoor School Field Experience (2 per semester/maximum of 4) is cr
RPTM 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest
RPTM 198	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RPTM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RPTM 201	Introduction to Community Recreation 3 Credits	This course introduces students to the role of community and non-profit recreation agencies in generating benefits for individuals and communities. Using experience industry design/management and social justice perspecti
RPTM 210	Introduction to Commercial Recreation and Tourism 3 Credits	Introduction to Commercial Recreation and Tourism is designed to introduce students to the historical and contemporary perspectives of the field of commercial recreation and tourism, and to serve as an introduction to the '
RPTM 215	Snowsports Education 3 Credits	Snowsports Education is designed to guide students to become a certified snowsports educator. The course introduces students to materials and experiences which help to prepare them to undertake the Level I certification
RPTM 220	Sustainability, Society, and Well-being 3 Credits	We live in a world increasingly connected via global trade, political alliances and frameworks, transportation, vast and rapid digital, telecommunication, and traditional social and communication networks. Human health and v
RPTM 230	Teambuilding Facilitation 3 Credits	Learn leadership and teambuilding skills to facilitate group dynamics and adventure, team activities. RPTM 230 Teambuilding Facilitation (3)Through hands-on experience, discussion, and observation students will develop a
RPTM 236	Leadership and Group Dynamics in Recreation Services 3 Credits	Supervision in recreation services, including theories, strategies, group dynamics, applied leadership and decision-making skills. RPTM 236 Leadership and Group Dynamics in Recreation Services (3)The primary objectives c
RPTM 240	Instruction and Leadership in Environmental Education 3 Credits	Outdoor School is a residential outdoor environmental education program attended by upper elementary-aged school children from school districts throughout central Pennsylvania. While serving as Outdoor School Leaders,
RPTM 250	PGA Facility Management 1 2 Credits	For students enrolled in the PGA Accredited Golf Management Option in RPTM The PGA of America promotes its members as experts in the game and business of golf. Based on our current PGA Accreditation, RPTM 250 (I
RPTM 254	PGA Teaching and Coaching 2 2 Credits	RPTM 254 is the second course in the PGA of America's education program in the subjects of golf teaching and coaching. This is a required course for program accreditation. Upon successful completion of the course, stude
RPTM 277	Inclusive Leisure Services 3 Credits	The course provides a review of leisure services and programs designed to be inclusive of individuals from underrepresented groups and an overview of professional, legal, and ethical issues. Students receive information abo
RPTM 280	Wilderness First Aid 1 Credits	Wilderness First Aid focuses on the basic skills of Response and Assessment, Musculoskeletal Imjuries, Environmental Emergencies, Survival Skills, Soft Tissue Injuries, and Medical Emergencies. Successful completion of th
RPTM 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RPTM 295	**SPECIAL TOPICS** 1-4 Credits	RPTM 295A Introduction to Golf Management (1)The primary objective of this course is to complete a 40-hour per week internship at an approved golf property. While on internship the student will complete assignments invo
RPTM 295A	Introduction to Golf Management 1-4 Credits/Maximum of 4	Introduction to various phases of golf operations in public, private, municipal, or military settings.
RPTM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RPTM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RPTM 299	Foreign Studies 1-12 Credits/Maximum of 12	Foreign Studies in RPTM.
RPTM 300Y	Tourism and Leisure Behavior 3 Credits	Examination of the impact of recreational sociocultural, governmental, economic, and physical environment on the leisure traveler within the tourism industry. RPTM 300 Tourism and Leisure Behavior (3) (IL)The objective of th
RPTM 305	Wilderness First Responder 3 Credits	The Wilderness First Responder course focuses on the development of assessment and response skills to give students the ability and experience necessary to recognize and treat a variety of medical and environmental eme
RPTM 310	Experience Design and Event Management 3 Credits	The Experience Design and Events Management course prepares students to practice strategic event management, project management, and program budgeting and develop a knowledge base in event technologies. Stude
RPTM 320	Recreation Resource Planning and Management 3 Credits	Relationship between leisure behavior and natural environment. Exploration of natural resources which enhance leisure. RPTM 320 Recreation Resource Planning and Management (3)This course is an introduction to managi
RPTM 325	Principles of Environmental Interpretation 3 Credits	Introduction, history, practice, and principles of contemporary interpretive activities common to natural and cultural history program sites. RPTM 325 Principles of Environmental Interpretation (3)The primary objective of this c
RPTM 326	Natural History Interpretation 3 Credits	Methods, techniques, resources to acquire knowledge of natural history. Field identification, projects of an applied nature, and seasonal application. RPTM 326 Natural History Interpretation (3)The primary objective of this c

RPTM 327	Cultural History Interpretation 3 Credits	Methods, skills, and techniques necessary for the programming of historical sites and areas. RPTM 327 Cultural History Interpretation (3)The purpose of this course is to provide students with an understanding of the cultural
RPTM 330	Adventure-Based Program Leadership 3 Credits	Both theoretical and experiential components are included as the role of the leader in adventure-based programs is examined. This course will focus on the philosophy, leadership techniques, ethics, and current practices in t
RPTM 334	Non-profit Recreation Agency Operations 3 Credits	Recreation agencies in voluntary and semiprivate sectors will be investigated through membership strategies, fund raising, volunteer management, etc. case studies. RPTM 334 Non-Profit Recreation Agency Operations (3)T
RPTM 335	Outdoor Recreation Consortium 3 Credits	The purpose of the Outdoor Recreation Consortium is to provide students with hands-on exposure to outdoor recreation resources management in a National Park. It is designed to increase students' understanding and appr
RPTM 336	Accounting in Recreation, Park, and Tourism Management 3 Credits	This course provides the student with the core knowledge needed to understand the kinds of data generated by the financial systems of recreation operations, prepare budgets, perform forecasting and breakeven analysis, a
RPTM 345	Guest Activities Practicum 3-6 Credits/Maximum of 6	The purpose of the Guest Activities Practicum is to provide students with hands-on exposure to the guest experiences industry within commercial recreation settings. Students interact with faculty, other students and profess
RPTM 350	PGA Facility Management Level 3 2 Credits	Based on our current PGA Accrediation Standards and Criteria, RPTM 350 (PGA Facility Management Level 3) is a course designed to continue to explore the various responsibilities and tasks associated with administering a
RPTM 354	PGA Teaching and Coaching 3 2 Credits	Based on our current PGA accreditation standards and criteria, RPTM 354 is the final course in the PGA of America's education program in the subject of golf instruction. This is a required course for program accreditation. U
RPTM 360	Golf Operations Management 3 Credits	The course will focus on business planning, budgeting, inventory management, and financial controls within golf operations. RPTM 360 Golf Operations Management (3)The primary purpose of this course is to prepare a stud
RPTM 370	Introduction to Arena Management 3 Credits	Introduction to arena and facilities management including operations, budgeting, marketing and staffing. Course is taught on site at a sports/ entertainment arena (ex: the Bryce Jordan Center). RPTM 370 Introduction to Are
RPTM 390	Political and Legal Aspects of Recreation Services 3 Credits	The primary objective of this course is to examine the governmental systems that influence the delivery of recreational services. The formal structure of government is considered along with the day-to-day political processes
RPTM 394	Orientation to Internship 1 Credits	Plan and prepare for internship in Recreation Services. Analyze career opportunities, internship process, and associated requirements. For RPTM majors only. RPTM 394 Orientation to Internship (1) The primary objective of
RPTM 395A	Internship in recreational services 1-3 Credits	The internship provides a paraprofessional experience in which students simultaneously acquire skills in the field while using classroom knowledge to solve problems and generate new ideas in a commercial recreation, event
RPTM 395B	Participation in Golf Management 1-4 Credits/Maximum of 4	RPTM 395B Participation in Golf Management (1-4)The primary objective of this course is to complete a 40-hour per week internship at an approved golf property. While on internship the student will complete assignments in
RPTM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RPTM 399	Foreign Studies 1-12 Credits	Foreign Studies in RPTM.
RPTM 410	Marketing of Recreation Services 3 Credits	Theoretical/practical application of marketing/advertising strategies in the development/delivery of recreation services. RPTM 410 Marketing of Recreation Services (3)The primary objective of this course is to provide student
RPTM 415	Commercial Recreation Management 3 Credits	Planning, developing, and managing profit-oriented recreation opportunities. RPTM 415 Commercial Recreation Management (3)Building upon subject matter presented in many of the core RPTM courses, the primary object
RPTM 425	Principles of Interpretive Materials 3 Credits	Principles, practices, application of non-personal interpretive activities common to natural/cultural history, including exhibits, audio-visual and illustrative materials. RPTM 425 Principles of Interpretive Materials (3) The primar
RPTM 430	Environmental Education Methods and Materials 3 Credits	Methods and materials for developing, implementing, and evaluating environmental education programs within formal and non-formal educational settings. RPTM (AEE) 430 Environmental Education Methods and Materials (
RPTM 433W	Program Evaluation and Research in Recreation Services 3 Credits	Systematic, structured problem-solving process for decision making in recreation and parks. Research techniques/evaluation procedures; quantitative, qualitative methodologies; deductive, inductive reasoning. RPTM 433 P
RPTM 435	Recreation Facilities Planning and Management 3 Credits	Planning and management of selected facilities with emphasis upon maintenance, activity, and support provisions. RPTM 435 Recreation Facilities Planning and Management (3) The purpose of this course is to introduce stu
RPTM 440	Theories, Policies and Practicies of Outdoor Experiential Leadership 3 Credits	The first objective of this course is to promote understanding of the history and evolution of adventure-based programming and to look at how this process has impacted the state of programming today in USA and beyond. T
RPTM 456	Programming in Recreation Services 3 Credits	This course is designed to provide students with information and practical experience required to successfully design, promote, implement, and evaluate programs and special events. There are several course objectives, incl
RPTM 457	Peer Mentoring 2 Credits	The purpose of the peer-mentoring course is to provide students who have successfully completed and demonstrated leadership ability in RPTM 456 with an opportunity to gain additional leadership and event planning skills
RPTM 470	Recreation and Park Management 3 Credits	Management of recreation and park services in public/non-profit settings; planning, budgeting fiscal development, resources allocation, decision- , making, computer applications. RPTM 470 Recreation and Park Manageme
RPTM 475	Advanced Arena Management 3 Credits	Advanced Arena Management develops advanced skills and understanding in arena and live entertainment management fields including operations, budgeting, marketing and staffing. Course is taught on site at a sports/ ent
RPTM 494	Research Project 1-6 Credits/Maximum of 6	Research Project
RPTM 494H	Senior Honors Thesis 1-6 Credits/Maximum of 6	Senior Honors Thesis
RPTM 495A	Internship in Recreation Services 3-12 Credits/Maximum of 12	The Recreation, Park and Tourism Management's Internship provides students with the opportunity to gain experience in the field while under the supervision of both the on-site supervisor and a faculty supervisor. The primar
RPTM 495B	Internship in Golf Management 1-4 Credits/Maximum of 12	Observation and participation under supervision in golf operations in public, private, municipal, or military settings.
RPTM 495C	Internship in Golf Management 1-4 Credits/Maximum of 4	Observation and participation under supervision in golf operations in public, private, municipal, or military settings.
RPTM 495D	Internship in Golf Management 1-4 Credits/Maximum of 4	Observation and participation under supervision in golf operations in public, private, municipal, or military settings.
RPTM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RPTM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RPTM 497P	**SPECIAL TOPICS** 3 Credits/Maximum of 9	RPTM Practicum Special Topics
RPTM 498	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RPTM 499	Foreign Studies 1-12 Credits/Maximum of 12	Foreign Studies in RPTM.
RHS 93	WorkLink Seminar I 1-6 Credits/Maximum of 12	This variable credit, repeatable seminar is taken as part of the WorkLink Strategies and Employability Certificate. WorkLink is a 2-year certificate program in career and inclusive education created for students with intellectual
RHS 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RHS 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RHS 100	Introduction to Disability Culture 3 Credits	This course is designed to increase student awareness of personal, interpersonal, and societal aspects of disability, including how disability can be defined and understood differently in varied individual, institutional, and cult
RHS 193	WorkLink Seminar II 1-6 Credits/Maximum of 12	This course is intended for students enrolled in the WorkLink Certificate program. WorkLink Seminar II (RHS 193) provides a broad exploration of several topics related to career preparation, job searching, work readiness, and
RHS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RHS 226	College Student Mental Health and Wellness 3 Credits	Have you ever wanted to learn more about yourself, your friends, your roommates, or other people in college? If so, then this course is for you. In this class, we will explore factors that affect the mental health and wellbeing o
RHS 295	Internship 1-12 Credits/Maximum of 12	N/A
RHS 295A	WorkLink Internship 1-9 Credits/Maximum of 12	Full or part-time, supervised non-group instruction including field experiences, or internships for students in the WorkLink certificate program or by approval of the instructor. Students will complete these internships on camp
RHS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
RHS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RHS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RHS 300	Introduction to Rehabilitation and Human Services 3 Credits	This course serves as an introduction to Rehabilitation and Human Services practice settings. The course reviews the human services profession, including introductory information about social problems within a socio-politic
RHS 301	Introduction to Counseling as a Profession 3 Credits	Overview of the counseling theories that are often used in human service and rehabilitation practices.
RHS 302	Client Assessment in Rehabilitation and Human Services 3 Credits	The purpose of this course is to give students an overview of a range of rehabilitation and health related assessments for use in clinical practice. The primary focus of the class is to gain an understanding of the range of form
RHS 303	Group Work in Rehabilitation Practice and Human Services 3 Credits	Students will learn about basic issues and key concepts regarding Group Work in Rehabilitation Practice and Human Services. An overview of essential elements and dynamics for conducting groups and various team-relate

RHS 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RHS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RHS 400W	Case Management and Communication Skills 3 Credits	Principles and practices of obtaining, recording, evaluating, and utilizing case data in rehabilitation planning; implementation of rehabilitation plans.
RHS 401	Community Mental Health Practice and Services 3 Credits	This course introduces issues specific to therapeutic helping in community mental health settings. Practical skills, knowledge, information, and suggestions unique to community mental health are provided. Topics such as ro
RHS 402	Children and Families in Rehabilitation Settings and Human Services 3 Credits	Contemporary family issues, child development, legal considerations, cultural and familial factors within rehabilitation and human services practice will be addressed.
RHS 403	Medical Aspects of Disability 3 Credits	The purpose of this course is to give students an overview of many chronic illnesses and disabilities, and their impact in the lives of the individuals who live with them. This course is designed for non-medical professionals ar
RHS 404	Rehabilitation Services for Transition Age Youth with Disabilities: Theory and Practice 3 Credits	Stark educational and employment disparities exist between youth and young adults with disabilities and their typically developing peers. Difficulty with obtaining and maintaining employment post-high school poses a threat
RHS 410	Employment Strategies for People with Disabilities 3 Credits	Develop knowledge, skills, and resources necessary to understand and practice effective employment strategies in working with people with disabilities. This course is designed for students to develop knowledge, skills, and
RHS 420	Culture & Disability: Study Abroad in Ireland 6 Credits	Study aspects of culture and disability through lecture, visiting Irish disability service agencies, and guest speakers from various disability agencies. This course is designed to increase student awareness of disability from a c
RHS 428	Rehabilitation Corrections 3 Credits	This course will provide an overview of the many facets of rehabilitation within correctional settings, including the history of rehabilitation in the criminal justice system, classification and risk assessment, offender needs and t
RHS 433	Trauma-informed care for school & human service professionals 3 Credits	Many helping professionals interact with people who have survived, or are at risk for trauma, even when these professionals are not directly involved in either the design or delivery of direct interventions for trauma symptoms
RHS 493	Professional Development and Internship Preparation in RHS 3 Credits	This course is designed to prepare students for a successful internship experience and career in RHS settings. Students will further their understandings of theories and models of human development that inform the human s
RHS 495	**SPECIAL TOPICS** 15 Credits	No description
RHS 495A	Rehabilitation and Human Services Internship 6-12 Credits/Maximum of 12	Internship in rehabilitation and related human services agencies and institutions providing psychosocial, vocational, educational, and/or residential services to people with disabilities. The internship in RHS provides students
RHS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
RHS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical of of special interest.
RLST 1	Introduction to World Religions 3 Credits	The course introduces students to the academic study of religion as well as to some of the major religious traditions of the world. Beginning with an introduction to polytheism, the course primarily focuses on the five major re
RLST 3	Introduction to the Religions of the East 3 Credits	Religious experience, thought, patterns of worship, morals, and institutions in relation to culture in Eastern religions. RLST 3 / ASIA 3 Introduction to the Religions of the East (3) (GH;IL)(BA) This course meets the Bachelor of A
RLST 4	Jewish and Christian Foundations 3 Credits	This course seeks to help students better understand the Bible and appreciate its role as an authoritative collection of sacred texts for Jews and Christians. The Bible is a difficult book, one that is demanding on many levels.
RLST 12N	Lands of the Bible 3 Credits	Utilizing the textual and archaeological evidence, this course introduces students to the lands, cultures, and peoples associated with the Hebrew Bible, New Testament, and Qur'an. Geographically, the lands of the Bible enco
RLST 44	Myth in Egypt and the Near East 3 Credits	This course provides a survey of the major Egyptian and Ancient Near Eastern mythological traditions in their cultural and historical context. The course also addresses the theoretical issues involved in the study of myth, and
RLST 44H	Myth in Egypt and the Near East 3 Credits	This course provides a survey of the major Egyptian and Ancient Near Eastern mythological traditions in their cultural and historical context. The course also addresses the theoretical issues involved in the study of myth, and

RLST 70	Prophecy in the Bible and the Ancient Near East 3 Credits	This course will introduce students to the prophetic traditions of the Bible and the Ancient Near East. The course will explore the development of prophetic circles in the ancient Near East (including Egypt, Syria-Palestine, and
RLST 90	Jerusalem: Past, Present, and Future 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
RLST 101	Comparative Religion 3 Credits	Comparative or historical analysis of religious factors--worship, theology, ethics, scriptures, etc., in two or more religious traditions.
RLST 102	Ancient Israel 3 Credits	Ancient Israel names the land and people of the Hebrew Bible (Old Testament), and it provides important background for the Jewish, Christian, and Muslim traditions. Yet, ancient Israel remains difficult to approach historically
RLST 103	Introduction to Hinduism 3 Credits	Historical overview of the development of ideas that forms the basis of the south Asian religious culture. ASIA 103 / RLST 103 Introduction to Hinduism (3) (GH;IL)(BA). This course meets the Bachelor of Arts degree requireme
RLST 104	Introduction to Buddhism 3 Credits	A general survey of the basic doctrine, practice, and historical development of Hinayana and Mahayana Buddhism. RLST 104 / ASIA 104 Introduction to Buddhism (3) (GH;IL)(BA) This course meets the Bachelor of Arts degre
RLST 105N	Buddhism and US Society 3 Credits	This course focuses on Buddhism in the United States. We will overview the historical factors that led to the development of Buddhism in the U.S., the many traditions that currently exist in the U.S., the role of Buddhism in th
RLST 106	Mysticism and Kabbalah 3 Credits	A survey of the history, philosphy, and cultural impact of various mystical traditions in relation to world religions.
RLST 107	Introduction to Islam 3 Credits	An introduction to the basic history of the Islamic tradition and also to Muslim beliefs and practices, this course will give students insight into the diverse world of Islam. From its origin in Arabia in the seventh century, Islam to
RLST 108	Myths and Mythologies 3 Credits	World mythology: myths primarily of non-Western cultures, based on selected areas and traditions around the world. CMLIT 108 Myths and Mythologies (3) (GH;IL)(BA) This course offers a survey of several different cultural tr

RLST 109H	What is The Self? 3 Credits	What is the self? Are you your body? Your identities? Your consciousness? This course explores diverse views of "the self" from a variety of different global religious and philosophical perspectives. Topics may include Asian t
RLST 110	Hebrew Bible: Old Testament 3 Credits	This course offers an academic introduction to the Hebrew Bible (Old Testament). The course will move through the Hebrew Bible in a roughly historical sequence oriented toward the order of the prose books of the Hebrew E
RLST 111	Early Judaism 3 Credits	Early Judaism will introduce students to the history of Judaism as reflected in Jewish literature from the period of the Babylonian exile (587/6 BCE) to the closure of the Babylonian Talmud (ca. 600 CE). This course will analyze
RLST 113	Jewish Myths and Legends 3 Credits	Comparative study of diverse interpretations of stories from the Bible in Judaism and Christianity. CMLIT 113 / JST 113 / CAMS 113 / RLST 113 Myths and Legends of the Jews (3) (GH;IL) The impact of the Bible on Western
RLST 114	Modern Judaism 3 Credits	This course will explore the developments in Judaism since the Enlightenment and the French Revolution. Major changes have come to the world since 1700-changes represented by terms such as the Enlightenment, Emanc
RLST 115	The American Jewish Experience 3 Credits	Chronological and topical survey of the story of Jewish life in America. We will trace the social, religious, cultural, and political developments in the Jewish community from the Colonial Period to the present. Topics to be cove
RLST 116	Muslims in America 3 Credits	This course is a study of Muslims in North America, primarily the United States. It examines the multiple racial, cultural, and national groups that comprise this diverse community, starting with the historical record of the Musl
RLST 120	New Testament 3 Credits	CAMS 120 / JST 120 / RLST 120 New Testament (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. This course provides an introduction to the collection of early Christian writings that make up the Ne
RLST 121	Jesus the Jew 3 Credits	Although Jesus of Nazareth is the object of Christian devotion, he was not a Christian himself, but a pious Jew. What can be known about the historical figure of Jesus the Palestinian Jew? How would his teachings and actio
RLST 122	Apocalypse and Beyond 3 Credits	Apocalypse and Beyond is a topic (and title) meant to suggest that apocalyptic imagination about the end of the world, first begun in the Ancient Near East with certain Jewish and Christian writings, is constantly re-envisione

RLST 123	History of God: Origins of Monotheism 3 Credits	This course examines the early history of God; that is, the concept of the divine as a single supreme being. In particular, it focuses on the origins of monotheism and the development of its three major traditions in the Near Ea
RLST 124	Early and Medieval Christianity 3 Credits	This course provides an introduction to the history of Christianity. It traces, specifically, the development of the Christian movement from its beginnings as a small Jewish sect in Jerusalem to its unlikely emergence as the relig
RLST 125W	Modern Christianity 3 Credits	Analysis in cultural context of selected thinkers, ideas, and movements in Christianity from the sixteenth century to the present.
RLST 129	Philosophy of Religion 3 Credits	This course surveys perennial philosophical questions connected with religion: What is God, deity, or divinity? What is the nature and significance of religious experience? Is it rational to hold religious beliefs? How persuasive
RLST 133N	Ethics of Climate Change 3 Credits	Climate change is not only a political, economic, and social crisis, it presents one of the great moral problems of our time. This course will cover the science, policy, and ethics of climate change. It fulfills general science requ
RLST 135	Ethics in Jewish Tradition and Thought 3 Credits	This course takes as its starting point the idea that modern ethical frameworks are deeply rooted in the soil of older traditions. By examining the development of Jewish intellectual traditions and their roots in the Bible, it prov
RLST 137	Gender, Sexuality, and Religion 3 Credits	WMNST 137 explores the history of different conceptions of gender and sexuality as they are understood within major religions (e.g. Hinduism, Judaism, Islam, Christianity, Buddhism, indigenous spiritual systems). The cours
RLST 140Y	Religion in American Life and Thought 3 Credits	The course aims to cast light on contemporary religious life in the United States by looking at the history of American religion. The course will provide students with a broad overview of American religious life from the colonial
RLST 145	African Diaspora Religions and Spiritualities 3 Credits	This course is an introduction to religions and spiritual traditions of the African Americas including the United States, the Caribbean and Latin America, emphasizing present institutions and practices, their relationship to Afric
RLST 146	The Life and Thought of Martin Luther King, Jr. 3 Credits	A survey of the civil rights leader including his religious beliefs, intellectual development, and philosophy for social change.
RLST 147	The Life and Thought of Malcolm X 3 Credits	The life of Malcolm X/El Hajj Malik El Shabazz (1925-1965) and his social, political, economic, and moral thought. AFAM 147 / RLST 147 The Life and Thought of Malcolm X (3) (GH;US)(BA) This course meets the Bachelor of
RLST 153	Dead Sea Scrolls 3 Credits	The discovery of the Dead Sea Scrolls was one the most important archeological discoveries of the 20th century. This collection of over 900 scrolls found in caves by the Dead Sea includes the oldest manuscripts of the Hebr

RLST 160	Sacrifice in the Ancient World 3 Credits	Sacrifice (from Latin sacer "holy + facere "to make") is one of the most prevalent yet troubling aspects of religion. Its destruction and violence is often at odds with other rituals and core understandings within a religion, so wh
RLST 164	Introduction to the Qur'an 3 Credits	The Qur'an is the sacred text of Islam. Revered by over a billion Muslims today, it is little understood by non-Muslims. This course will introduce students to the literary and religious meanings of this important text, which is s
RLST 165	Islamic States, Societies and Cultures c. 600-1500 3 Credits	This course introduces students to the history and culture(s) of the Islamic world from c. 600-1500. The course develops a historical framework for understanding developments in religious and legal thought and practice, scie
RLST 181	Introduction to the Religions of China and Japan 3 Credits	A survey of the history, philosophy, and cultural impact of the major Far Eastern religions: Confucianism, Taoism, Buddhism, and Shinto. ASIA 181 / RLST 181 Introduction to the Religions of China and Japan (3)(GH;IL)(BA) Th
RLST 194	Jerusalem: Sacred and Profane 3 Credits	Jerusalem, a city sacred to Judaism, Christianity, and Islam, is often depicted as the spiritual and physical center of the world. Throughout its 5000-year history, Jerusalem has attracted diverse cultures, empires, and peoples
RLST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
RLST 235	The Church and the Jews 3 Credits	Examination of the relationship between Western church and the Jews from the First Century to Enlightenment. HIST 235HIST 235 The Church and the Jews (3) (US;IL)(BA) This course meets the Bachelor of Arts degree req
RLST 280	Gendering the Divine in Indian and South Asian Religions 3 Credits	Throughout South Asia, ancient religious beliefs and cultural traditions interact with forms of modernity that constitute the daily lives and practices of women and men today. Focusing on conceptualizations of sex and gende
RLST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RLST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RLST 407Y	Antisemitisms 3 Credits	Surveys the history of anti-Semitism from antiquity through the Middle Ages to the present. HIST (J ST) 409Y (RL ST 407Y) European Anti-Semitism from Antiquity to the Present (3) (IL)(BA) This course meets the Bachelor of
RLST 409Y	Antisemitisms 3 Credits	Surveys the history of anti-Semitism from antiquity through the Middle Ages to the present. HIST (J ST) 409Y (RL ST 407Y) European Anti-Semitism from Antiquity to the Present (3) (IL)(BA) This course meets the Bachelor of
RLST 411	Jewish Studies 3 Credits/Maximum of 9	Study of the life and thought of a particular period or movement in the history of Judaism.
RLST 422	Religion and American Culture 3 Credits/Maximum of 6	Selected topics, problems, or historical movements in American religion; relation between religion and American culture.
RLST 425W	Books of the Bible: Readings and Interpretation 3 Credits/Maximum of 12	Study of a biblical book/topic in terms of literary, historical, and cultural contexts, history of interpretation, and critical scholarship. CAMS (J ST/RL ST) 425W Books of the Bible: Readings and Interpretation (3 per semester/n
RLST 432W	Gender and Sexuality in the Bible 3 Credits	This writing intensive course will examine issues of gender and sexuality in the Bible, including the Hebrew Bible/Old Testament, the Deuterocanon, and the New Testament. It will introduce students to a variety of academic a
RLST 440Y	The Orthodox Christian Tradition 3 Credits	History, culture, and beliefs of the Eastern Orthodox religious tradition with special reference to Russia.
RLST 460Y	Research Seminar in History of Asian Religion & Medicine 3 Credits/Maximum of 9	This seminar focuses on the intersection of history, religion, and medicine in Asia. It is an upper-level, writing-intensive course that gives students the opportunity to learn research skills that are central to humanities research.
RLST 461	Sociology of Religion 3 Credits	Examines religion through a sociological lens to understand the religious aspects of society and the social aspects of religion. Covers concepts, theories, and research on such topics as the major religious traditions, rituals, c
RLST 471Y	Classical Islamic Civilization, 600-1258 3 Credits	Pre-Islamic Arabia; Muhammad; Arab conquests; Islamic beliefs and institutions; literary, artistic, and scientific achievements; relations with Europe; breakdown of unity.
RLST 472	Islamic Philosophy 3 Credits	A survey of major texts from the Islamic philosophical tradition, focusing primarily on the classical period (ninth to twelfth centuries) and its influence on modern thinkers.
RLST 478	Ethics After the Holocaust 3 Credits	The aim of this course is to explore various ways in which philosophers have responded to Auschwitz (a signifier, or name, which is in turn not without controversy and complexity). It will examine, in particular, the promise an
RLST 483	Zen Buddhism 3 Credits	The development and current state of Zen Buddhist thought and practice.
RLST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.

RLST 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RLST 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, non-group instruction, including field experience, practica, or internships.
RLST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RLST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RLST 499	Foreign Study--Religious Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RM 214	Applications of Probability Theory to Actuarial Science 1.5 Credits	This course introduces students to actuarial science topics and the actuarial profession. To become an actuary, individuals must pass a series of professional examinations that accredit them as professionals in the field. This
RM 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RM 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RM 301	Risk and Decisions 3 Credits	Introduction to decision-making under uncertainty. Mathematical probability and statistics, decision theory and game theory will be studied. R M 301 Risk and Decisions (3) Most tough business decisions involve risk. Smark
RM 302	Risk and Insurance 3 Credits	Introduction to the principles and methods of handling business and personal risks; emphasis on insurance techniques.
RM 303	Real Estate Fundamentals 3 Credits	Introduction to urban real estate; economic forces affecting property rights; real estate markets and finance; land-use analysis; government policies.
RM 320W	Risk Management and Insurance 3 Credits	Goals and methods of risk management. Commercial insurance and alternative risk transfer (ART) methods in addition to the characteristics of insurance markets and intermediaries used by risk managers. This course cover
RM 330W	Real Estate Risk Analysis 3 Credits	Risk and value associated with real estate decision making, which includes purchasing, leasing renovation, financing, and investing. The purpose of this course is to demonstrate how value and risk is central to virtually all rea
RM 395	Internship 1-3 Credits/Maximum of 3	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RM 401	Fundamentals of Private Pensions 3 Credits	Analysis of pension regulation, funding, vesting, retirement annuities under insured and self-insured plans, actuarial cost analysis, plan termination insurance.
RM 405	Corporate Risk Management 3 Credits	Risk management for firms and organizations; loss control, risk transfer, and loss financing alternatives; Corporate employee benefit program design and financing.
RM 410	Financial Mathematics for Actuaries 3 Credits	This course focuses on Interest Theory, including compound interest, annuities with non-contingent payments; equations of value; loans and their valuation; the pricing of bonds, determining their yields to maturity and outsta
RM 411	Long Term Actuarial Mathematics - Fundamentals 3 Credits	A study of the mathematical theory of life contingencies, single-life functions, and their applications. The course provides a solid understanding of the mathematics of life insurance and annuities, and helps actuarial students
RM 412	Long Term Actuarial Mathematics - Advanced Topics 3 Credits	A study of joint-life and survivor-life functions, population life tables, and multiple decrement theory, with applications to disability and retirement problems. The course provides a solid understanding of the advanced topics i
RM 415	Modeling for Actuarial Science 3 Credits	Modeling for Actuarial Science provides detailed actuary principles dealing with models of interest rates used to price liabilities, and models of stock prices and options used to price employee options and cash balance acco
RM 420	Property, Casualty, and Health Insurance 3 Credits	Actuarial methods and concepts used to model property, casualty and health insurance losses along with credibility theory. RM 420 Property, Casualty, and Health Insurance (3) This course provides a solid understanding of a
RM 421	Short Term Actuarial Mathematics - Fundamentals 3 Credits	RM 421 provides a solid understanding of actuarial methods and concepts used to develop loss models for property and casualty insurance and health insurance. The course makes use of real world numerical examples in o
RM 422	Short Term Actuarial Mathematics - Advanced Topics 3 Credits	This course covers advanced topics of actuarial methods and concepts used to develop loss models for property and casualty insurance and health insurance. The course makes use of real world numerical examples in orde
RM 424	Real Estate Law 3 Credits	Analyze contemporary law applicable to various types of ownership interests and rights, methods of transferring ownership, and use of real property. B LAW 424 B LAW (R M) 424 Real Estate Law (3) Analysis of contemporar
RM 430	Life and Health Insurance 3 Credits	Industrial organization of the US life-health insurance industry; economic issues related to organizational structure, operational functions, and the supply and demand for life-health products.
RM 440	Risk, Strategy, and Decision Making 3 Credits	One of the key ways that a business attempts to manage risk it anticipates and confronts in markets is through organizational-level elements such as its business strategy, structure, and culture. These elements emerge from
RM 450	Contemporary Issues in Real Estate Markets 3 Credits	Historical performance, land use issues, market valuation, real estate development, public policy issues.
RM 460	Real Estate Financial Analysis 3 Credits	Debt and equity financing, capital structure, "creative financing," risk analysis, corporate asset management. FIN (R M) 460 Real Estate Financial Analysis (3) The objective of this course is to provide in-depth coverage of rea
RM 470	Real Estate and Capital Markets 3 Credits	Analysis of publicly-traded real estate of both the equity, (REITs) and debt (MBSs) sides. The course also provides international perspectives. FIN 470 / RM 470 Real Estate and Capital Markets (3) The objectives of this cours
RM 475	Quantitative Analysis for Business 3 Credits	This course provides students with working knowledge of some widely used quantitative methods, such as Monte Carlo simulations, t-tests, linear regressions, nonlinear regressions, regressions with dummy variables, and re
RM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RM 494H	Honors Research Project 1-6 Credits/Maximum of 6	Supervised honor student research projects identified on an individual or small-group basis.
RM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative Projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RSOC 11	Intro Rural Sociology 3 Credits	Basic sociological concepts applied to rural societal institutions and rural communities; causes and consequences of rural social change as applied to domestic and global regions. The objectives of the course are (1) to acqu
RSOC 400N	Exploring Indigenous Ways of Knowing in Great Lakes Region: Lecture 3 Credits	Exploring Indigenous Ways of Knowing in the Great Lakes Region explores concepts and values distinctive to indigenous ways of knowing (IK) in the Great Lakes Region through readings, video segments, and lectures. Five
RSOC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RSOC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RSOC 499	Foreign Study--Rural Sociology 1-12 Credits/Maximum of 12	Study in selected countries of rural social institutions and current rural sociological problems.
RUS 1	Elementary Russian I 4 Credits	An introduction to the fundamentals of the language and culture with emphasis on communicative proficiency, clarity of pronunciation, and basic skills in reading, writing, and conversation. This course assumes no prior know
RUS 2	Elementary Russian II 4 Credits	Continued introduction to the fundamentals of the language and culture with emphasis on communicative proficiency, clarity of pronunciation, and basic skills in reading, writing, and conversation. Students who grew up in a
RUS 3	Intermediate Russian I 4 Credits	Continued study of grammar and review of basic grammatical structures with emphasis on acquisition of vocabulary and continued development of conversational, writing, and reading skills. Students who grew up in a home
RUS 51	Elementary Intensive Russian for Graduate Students I 3 Credits	Intensive introduction to Russian: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. RUS 051 Elementary Intensive Russian for Graduate Students I (3)This is the firs
RUS 52	Elementary Intensive Russian for Graduate Students II 3 Credits	Intensive introduction to Russian: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. RUS 052 Elementary Intensive Russian for Graduate Students II (3)This is th
RUS 53	Intermediate Intensive Russian for Graduate Students 3 Credits	Continued intensive study of Russian at the intermediate level: reading, writing, speaking, listening, cultural contexts. RUS 053 Intermediate Intensive Russian for Graduate Students (3)This is the third in a series of three cour
RUS 83	First-Year Seminar in Russian 3 Credits	Russia's cultural past and present. RUS 083 First-Year Seminar in Russian (3) (GH; FYS; IL) (BA) Russia, the world's largest country stretching over eleven time zones in Europe and Asia, is currently undergoing a dramatic tra
RUS 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

RUS 100	Russian Culture and Civilization 3 Credits	RUS 100 Russian Culture and Civilization (3) (GH; IL) (BA). This course meets the Bachelor of Arts degree requirements and is a prescribed course for the Russian major and minor. The course acquaints students with the gen
RUS 101N	Russian Cinema 3 Credits	RUS 101N Russian Cinema (3) (GH; GA; IL). From the beginning, cinema has been an intersection of technology, art, entertainment, industry, commerce, politics, and more. The course acquaints students with major filmmake
RUS 110	Russian Folklore 3 Credits	Study of byliny, lyrical and historical songs, folktales, drama, ceremonial poetry, chants, charms, proverbs, and mythology of Russia. In English. RUS 110 Russian Folklore (3) (GH;IL)(BA) This course meets the Bachelor of Ar
RUS 141Y	Russian Literature in English Translation: 1800-1870 3 Credits	Pushkin, Lermontov, Gogol, the critics, Turgenev, Dostoevsky, Tolstoy. Writing assignments will serve as a major way of exploring subject matter.
RUS 142Y	Russian Literature in English Translation: 1870 to Present 3 Credits	Dostoevsky, Tolstoy, Chekhov, Gorky, symbolists, selected Soviet authors. Writing assignments will serve as a major way of exploring subject matter.
RUS 143	The Culture of Stalinism and Nazism 3 Credits	This course, which is cross-listed between Russian and German, aims to acquaint students with an important and troubling chapter of 20th-century culture. The regimes of Stalin and Hitler have had a decisive impact not onl
RUS 144	Multicultural Russia: Narratives of Race and Ethnicity in Russian Literature and Cultur 3 Credits	RUS 144 Multicultural Russia: Narratives of Race and Ethnicity in Russian Literature and Culture (3) (GH, IL). Despite media's renewed attention to Russia's domestic and foreign affairs, the fact that Russia-a gigantic land ma
RUS 145	Putin¿s Russia and Its Protest Culture 3 Credits	RUS 145 Putin¿s Russia and Its Protest Culture (3) (GH, IL). The collapse of the Soviet Union in 1991 caught most observers by surprise and has led Russia on a path of political, economic, and cultural liberalization of an unp
RUS 196	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
RUS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RUS 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RUS 200	Intermediate Russian II 4 Credits	A continuation of intermediate Russian with a comprehensive grammar review and focus on reading, writing and speaking Russian.
RUS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RUS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RUS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RUS 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
RUS 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
RUS 401	Advanced Russian I 4 Credits	Advanced practicum in conversation, reading, and composition. This course is designed as a transition from Intermediate to Advanced level of speaking proficiency. It is taught in Russian and covers topics in grammar in the
RUS 402	Advanced Russian II 3 Credits	Advanced practicum in reading, writing, and conversation. RUS 402 (IL) builds on and expands the language competence acquired in Russian 200 and 401 and is taught entirely in Russian to ensure complete immersion. Stu
RUS 403	Advanced Russian Conversation and Composition 3 Credits	Advanced practicum in conversation and composition. RUS 403 (BA) (IL) includes situational topics and complex academic discourse and is designed to enhance students' oral, listening comprehension, and writing skills in f
RUS 404	Advanced Reading and Composition 3 Credits	Advanced Russian Reading and Composition. RUS 404 Advanced Reading and Composition (3) RUS 404 focuses on reading and writing in Russian. Some time is spent on reading strategies, methods of building a working
RUS 405	Seminar in Russian Literature 3-6 Credits/Maximum of 6	Readings in classical Russian literature; Topics vary. RUS 405 Seminar in Russian Literature (3 per semester/maximum of 6) (IL) In no other culture has literature attained the centrality it enjoyed in nineteenth- and twentieth-c
RUS 406	Russian Film 3 Credits	Conversation and Composition based on classical Russian films. RUS 406 Russian Film (3) (IL) Taught in Russian, this course offers an overview of the development of the film industry in the USSR/Russia within its historical
RUS 410	Heritage Russian 4 Credits	Introductory course for heritage speakers aiming at developing basic reading, writing, and grammar skills in Russian. The course is intended for students who grew up speaking Russian at home but had minimum exposure to
RUS 412	Russian Translation 3 Credits/Maximum of 6	Translation from Russian into English of complex texts from the humanities, social sciences, and technical fields.
RUS 414	Advanced Grammar and Linguistic Analysis of Contemporary Russian 3 Credits	In-depth study of selected grammar topics pertaining to the phonology, morphology, and syntax of Modern Standard Russian with glimpses into the history of the Russian language. The course aims to both enhance student
RUS 420	Senior Seminar in Russian Culture 3 Credits	Senior seminar devoted to topics in Russian culture and conducted in Russian. Building on linguistic and cultural material covered in the second and third levels of study toward the Russian major, this course is designed to a
RUS 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RUS 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
RUS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
RUS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
RUS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SSET 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, individual training including practical field experiences or internships where written and oral critique of the activity is required. SSET 295 Internship (1-18) The objectives of the Penn State Harrisburg,
SSET 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, individual training including practical field experiences or internships where written and oral critique of the activity is required. SSET 395 Internship (1-18) The objectives of the Penn State Harrisburg,
SSET 495	Internship 1-18 Credits	Supervised off-campus, individual training including practical field experiences of internships where written and oral critique of the activity is required. SSET 495 Internship (1-18) The objectives of the Penn State Harrisburg,

SPSY 472	Human Development, Health, & Education From A Global Perspective 3 Credits/Maximum of 3	Intended to address the University's global community objectives and provide scholarly background on human development in other cultures.
SPSY 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SPSY 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SC 60N	Art in the Natural World 3 Credits	This course will foster appreciation of art and the natural world through exploration of the flora, fauna, geology, and water systems. Students will use scientific and artistic observation skills to understand, relate, and respond
SC 100	Introduction to Research 1 Credits	Introduces essential elements of laboratory safety, laboratory techniques, research ethics, and scientific communication skills. Especially for undergraduate research students. SC 100 Introduction to Research (1) The main c
SC 101	Job Placement Skills and Strategies 1 Credits	Strategies and skills designed to identify career/life goals and implement career decisions.
SC 103N	When Data Meets Design 3 Credits	The student will become an effective generator and consumer of the data visualizations that saturate public and professional discourse. The student will examine the rules of design and how they can be used to construct co
SC 120N	Plants, Places, and People 3 Credits	Students learn about plants from the perspective of sustainability, agriculture, food, genetics, textiles, and medicine, across history and around the globe, after spending a few weeks learning about basic plant biology. Stude
SC 125N	History of Infectious Disease and Epidemiology 3 Credits	Infectious diseases once thought to be nearly eradicated have seen a resurgence in recent years. The majority of the cases arose from people who deliberately chose not to vaccinate their children against these disease. Eve
SC 135N	Society and Disease Management 3 Credits	Society and Disease Management is an interdisciplinary general education course to educate students in the biological mechanisms of diseases, treatment of individual patients, and how disease burden is managed within c
SC 142N	Science in Literature 3 Credits	The course explores two streams in parallel. Students will examine selected historic landmarks in science (e.g. evolution, atomic energy/weapons, climate change, biotechnology), with a focus on common misconceptions ab
SC 145N	The Visual Body 3 Credits	This course uses the field of anatomical illustration to explore the history of medicine and our understanding of the human body. Charting the influence of visual art and imaging systems as essential aspects of medicine, this
SC 150N	The Science of Sustainable Development 3 Credits	This course will focus on how human society depends on the environment for its continued existence. It will examine several major topics relating to environmental and social sustainability including ecosystem conservation,
SC 183Q	From Beast Books to Resurrecting Dinosaurs 3 Credits	In this honors course, we'll explore changing perspectives on life and approaches to studying life. More specifically, we'll examine, through an historical lens, humankind's quest to describe and explain and, ultimately, to exp
SC 200	Science in Our World: Certainty and Controversy 3 Credits	A science appreciation course, aimed at making non-scientists more informed consumers of science. Science is frequently in the news. That's because it affects our everyday lives, shapes our view of the world and our place
SC 201	Medical Professions 1 Credits	Learn about the different medical professions and related subjects. SC 201 Medical Professions (1)The purpose of this course is to provide students with general information on the different health professions and various rel

SC 205N	BS: Identifying Bias and Falsehood 3 Credits	The course will consider the ways statements are used for aims other than to convey accurate information. This disregard for truth results in the increasingly difficult task of identifying bias and falsehood in the age of informat
SC 210	Sophomore Science Seminar 2 Credits	Covers topics related to success in upper level courses including critical thinking, library resources, reading primary literature, and communication skills. SC 210 Sophomore Science Seminar (2) The main objective of this co
SC 220	Principles and Strategies for Effective STEM Learning I 1 Credits/Maximum of 1	This course is designed to prepare undergraduate peer-learning mentors for their role in facilitating student centered learning activities. This course is designed to prepare peer-learning mentors for their role in facilitating stud
SC 240	Learning Assistant Experience 1-2 Credits/Maximum of 8	This course is experiential training in facilitating collaborative active learning in science. The students in this experiential learning course are selected by the course instructors to participate as a part of their instructional team
SC 290	Renewable Energy in Costa Rica 3 Credits/Maximum of 3	Renewable energy sources are essentially carbon-free and more sustainable than fossil or nuclear fuels. This course reflects the remarkable progress that has been made in the field in recent years. We will spend about one-t
SC 294	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SC 295	Science Co-op Work Experience I 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in a scientific position. To be offered for SA/UN grading.
SC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SC 306	BS MBA Undergraduate Seminar 2 Credits/Maximum of 6	This course is designed for students enrolled in the Science BS/MBA IUG degree program. It will provide an opportunity for students to become familiar with key MBA common terms and concepts that will be useful for their
SC 306W	BS MBA Undergraduate Seminar 2 Credits	This course is designed for students enrolled in the Science BS/MBA IUG degree program. It will provide an opportunity for students to become familiar with key MBA common terms and concepts that will be useful for their
SC 395	Science Co-op Work Experience II 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in a scientific position. To be offered for SA/UN grading.
SC 400	Consequences of Science 1 Credits	A series of lecture/discussions in which science faculty members show the social implications of their research specialty.
SC 402	Science-Related Employment: Corporate Organization, Opportunities, and Expecta 1-3 Credits/Maximum of 3	Present undergraduate and graduate students with information and skills necessary for success in science-related job positions available in industry.
SC 451	Science Outreach and Communication 1 Credits	SC 451 will provide students with the skills and experience necessary to design outreach activities based on their research and interests, communicate their science in multiple modes, and engage with diverse audiences. Le
SC 475N	Anatomy in Italy: Cadavers, Culture, and Science 3 Credits	Anatomy is more than learning to name structures. Students will practice critical thinking and analytical skills, and develop key literacies while studying human cadavers and learning to predict a structure's function by observ
SC 476	Human Dimensions of Health Care 3 Credits	Field experience in five or more medical settings; complementary exposure to the scientific literature; weekly discussions. SC 476 Human Dimensions of Health Care (3) This course, delivered jointly by Penn State and the lo
SC 494	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SC 494H	Research Project Courses 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SC 495	Science Co-op Work Experience III 1-3 Credits/Maximum of 3	A supervised work experience where the student is employed in a scientific position. To be offered for SA/UN grading.
SC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SCIED 110	Introduction to Engineering for Educators 3 Credits	This course focuses on physics content, engineering design principles, and elementary science education pedagogy.
SCIED 112	Climate Science for Educators 3 Credits	Concepts of climate sciences highlighted by evidence-based explanations and scientific discourse in preparation for K-6 science teaching. This introductory, multidisciplinary course will focus on the interactions among phys
SCIED 114	Sound and Light for Educators 4 Credits/Maximum of 4	Waves, sound, and light concepts highlighted by evidence-based explanations and scientific discourse in preparation for K-6 science teaching. This course has two main focus areas: physics content typically addressed in el
SCIED 116	Introduction to Astronomy for Educators 3 Credits	This course is designed to engage students with the big ideas of astronomy in ways that will help them understand both the content of astronomy, as well as the practices of science as carried out by astronomers. The cours
SCIED 118	Field Natural History for Teachers 3 Credits	The purpose of this course is to equip students with knowledge of central Pennsylvania flora and fauna, familiarize students with different techniques for teaching about natural history, and to engage students with citizen sci
SCIED 140	Outdoor School Field Experience 2 Credits/Maximum of 6	To provide students with educational leadership skills and teaching opportunities working with children in an outdoor residential camp setting. RPTM 140 Outdoor School Field Experience (2 per semester/maximum of 4) is cr
SCIED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SCIED 298	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SCIED 411W	Teaching Secondary Science I 3 Credits	Introduction to teaching secondary school science, including curriculum, learning theory, media, evaluation as they relate to student progress. SCIED 411W Teaching Secondary Science I (3) Science Education 411W is an in
SCIED 412	Teaching Secondary Science II 3 Credits	SCIED 412 is the second of two sequenced methods courses for preservice science teachers who are pursuing certification to teach in grades 7-12. In SCIED 412, prospective science teachers learn to effectively plan, delive
SCIED 458	Teaching Science in the Elementary School 3 Credits	SCIED 458 is designed to support teacher candidates in developing their own reflective practice in science teaching for young learners. Candidates in this course engage in a series of experiences that move them from their
SCIED 460	Trends and Issues in Science, Technology, Engineering, and Mathematics (STEM) Edu 3 Credits/Maximum of 3	Develops understandings of Science, Technology, Engineering, and Mathematics (STEM) education research and practices for PreK-12 teaching and learning
SCIED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SCIED 496A	**SPECIAL TOPICS** 1.5 Credits/Maximum of 18	No description
SCIED 496H	Honors in Science Education 1-12 Credits/Maximum of 12	Independent studies course.
SCIED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SCIED 498	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
STS 47	Wilderness, Technology, and Society 3 Credits	Impact of developments in science, literature, and art on changing attitudes toward nature; consequences for conservation, preservation, environmental ethics.
STS 55	Space Science and Technology 3 Credits	The science and technology of space exploration and exploitation; physical principles; research and development; history, space policy, and social implications.
STS 100	Science, Technology, and Culture 3 Credits	A survey of the development and culture of science, technology, and medicine in world history. S T S 100 Science, Technology, and Culture (3) (GH)(BA) This course meets the Bachelor of Arts degree requirements. 'Science,
STS 100H	The Ascent of Humanity 3 Credits	A survey of some of the intellectual achievements that highlight humanity's attempts to understand nature and shape the environment.
STS 101	Modern Science, Technology, and Human values 3 Credits	Relationships of science and technology to human aspirations, values, and arts.
STS 105	Food Facts and Fads 3 Credits	This course is an introduction to the central role of food and food production in all areas of human life. The social and technological bases of various food systems are examined from the hunter-gatherer to the agrarian to the

STS 110N	Chemistry in World Wars I and II 3 Credits	The study and assessment of chemical developments during the First and Second World Wars will form the backbone of this course. As the course is historically focused on the period from 1914 to 1945, the students will de
STS 115	Pre-departure Intercultural Learning 1-3 Credits/Maximum of 9	STS 115 (1-3) Pre-departure Cross-cultural Engagement serves as a pre-departure introduction for students to the culture of their international travel destination affiliated with Penn State programing. The course content cove
STS 124	History of Western Medicine 3 Credits	This course explores the history of health, illness, and medicine in western society from Ancient Egypt through the modern world. Relying on both primary and secondary sources, the course examines major developments in
STS 151N	Technology and Society in American History 3 Credits	This course examines the development of technology in the United States from the colonial period to the present, and places into a historical context the reception and influence of these technological developments on the s
STS 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
STS 199	Science, Technology, and Society: Foreign Studies 1-3 Credits/Maximum of 12	Science, Technology, and Society foreign studies. Courses offered in foreign countries by individual or group instruction.
STS 200	Critical Issues in Science, Technology, and Society 3 Credits	An overview of interactions between science, technology, and society from social sciences and humanities perspectives.
STS 201	Climate Change, Energy, and Biodiversity 3 Credits	Studies of global warming, energy options, and biodiversity; their interrelations as sciences and as societal issues.
STS 233	Ethics and the Design of Technology 3 Credits	Humans have always created artifacts and artificial environments to aid us in our survival and to help fulfill our needs and desires. Moreover, today technology is all pervasive, transforming and conditioning our social and poli
STS 245N	Globalization, Technology, and Ethics 3 Credits	The objective of Globalization, Technology, and Ethics is to prepare students (especially but not limited to engineering, information sciences & technology, and business students) who are headed into the corporate, NGO (nor
STS 299	Foreign Studies 1-12 Credits/Maximum of 12	Science, Technology, and Society foreign studies. Courses offered in foreign countries by individual or group instruction.
STS 313	Global Engineering Fellows Seminar 1 Credits	This is a required gateway course for engineering students to be considered to join the Global Engineering Fellows program. In this course, students build on their global experiences. This course will expand students' ability
STS 399	Science, Technology and Society: Foreign Studies 1-3 Credits/Maximum of 12	Science, Technology, and Society foreign studies. Courses offered in foreign countries by individual or group instruction.
STS 408	Cultural Foundations of Communications 3 Credits	Examination of oral, scribal, print, industrial, and electronic cultures; analysis of impact of technology on communications and social structure. COMM 408 / STS 408 Cultural Foundations of Communications (3)(BA) This cou
STS 416	Race, Gender and Science 3 Credits	The class will focus on race and gender as products of science, and how societal values shape scientific activity.
STS 420	Energy and Modern Society 3 Credits	Technology and economics of energy resources, production, and consumption; environmental factors, exhaustion, new technology.
STS 428	The Darwinian Revolution 3 Credits	The origins and implications of evolutionary theory.
STS 433	Ethics in Science and Engineering 3 Credits	Ethical issues arising in the practice of science and engineering and their philosophical analysis.
STS 460	Science, Technology, and Public Policy 3 Credits	The all-pervasive importance of science and technology policy in modern societies and mechanisms and processes by which it is made.
STS 499	Foreign Studies 1-12 Credits/Maximum of 12	Science, Technology, and Society foreign studies. Courses offered in foreign countries by individual or group instruction.
SRA 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SRA 111	Introduction to Security and Risk Analysis 3 Credits	Introduction to Security and Risk Analysis is a preliminary course with a broad focus, spanning the areas of security, risk and analysis. In addition to familiarizing the student with basic technical terminology, it will also touch u
SRA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SRA 199	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
SRA 211	Threat of Terrorism and Crime 3 Credits	Provides overview of nature, scope, and seriousness of threats to security as a result of terrorism and crime. SRA 211 Threat of Terrorism and Crime (3) Threat of Terrorism and Crime is a course designed to acquaint student
SRA 221	Overview of Information Security 3 Credits	Provides an understanding of the overview of information security including security architecture, access control, and internet secure applications. SRA 221 Overview of Information Security (3) SRA 221 focuses onan overvie
SRA 231	Decision Theory and Analysis 3 Credits	Provides an overview of decision theoretical and analytical concepts and tools in the security risk analysis field. SRA 231 Decision Theory and Analysis (3) Decision Theory and Analysis is designed for students to build an un
SRA 268	Visual Analytics 3 Credits	This course introduces the fundamental principles, methods, and tools of visual analytics that enable security and risk analysts to synthesize information and derive insight from massive, dynamic, ambiguous, and often confli
SRA 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SRA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SRA 297	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SRA 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SRA 311	Risk Analysis in a Security Context 3 Credits	Assessment and mitigation of security vulnerabilities for people, organizations, industry sectors, and the nation. SRA 311 Risk Management: Assessment and Mitigation (3) Risk Analysis in a Security Context is focused on de
SRA 311W	Risk Analysis in a Security Context 3 Credits	This intermediate course is appropriate for students majoring in Security and Risk Analysis. This course provides students with the background, experience and perspective required to document risk and identify policies and
SRA 365	Statistics for Security and Risk Analysis 3 Credits	Theoretical foundations and practice of intermediate statistics. SRA 365 Statistics for Security and Risk Analysis (3) SRA 365 is an intermediate-level statistics course emphasizing how to summarize data using descriptive st
SRA 397	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SRA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.

SRA 421	The Intelligence Environment 3 Credits	The Role of information and intelligence introduces students to the architecture and policies of the U.S. Intelligence Community (IC) and examines how U.S. intelligence policies and practices relate to overall U.S. foreign polic
SRA 433	Deception and Counterdeception 3 Credits	Deception tactics, technologies and procedures and approaches to counterdeception analysis. SRA 433 Deception and Counterdeception (3) This course introduces deception and counterdeception and their role in support
SRA 440W	Security and Risk Analysis Capstone Course 3 Credits	This course is designed to provide IST students enrolled in their last year of study in the SRA major to experience a semester-long security and risk analysis scenario or problem-solving exercise by providing realistic analytic
SRA 450	Cyber-Crime and Cyber-Warfare 3 Credits	Cyber-crime and cyber-warfare are among the most critical areas facing information security professionals. Both have emerged as strategic issues facing the United States. This importance is recognized by NSA, DHS and in
SRA 468	Spatial Analysis of Risks 3 Credits	The objective of this course is to develop a spatial perspective on risk analysis empower students with GIS spatial data representation, visualization, and analysis methods that are fundamental to the spatial analysis of risk. F
SRA 471	Informatics, Risk, and the Post-Modern World 3 Credits	Provides in-depth study of how security informatics is influenced by the risk and post-modern culture. SRA 471 Informatics, Risk, and the Post-Modern World (3)The post-modern world provides a changing climate and cont
SRA 472	Integration of Privacy and Security 3 Credits	Exploration of technological, operational, organizational and regulatory issues related to maintenance of individual privacy, confidentiality of organizations, and information protection. SRA 472 Integration of Privacy and Secu
SRA 480	Crisis Informatics 3 Credits	This course examines how information and communication technologies have played a role in saving lives' specifically in the areas of technologies used toward emergency response. It explores disaster response and the inte
SRA 494	Research Project 1-12 Credits	Supervised student activities on research projects identified on an individual or small-group basis.
SRA 496	Independent Studies 1-18 Credits	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SRA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SRA 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction
SLAV 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SLAV 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SLAV 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SLAV 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SLAV 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SLAV 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SLAV 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SLAV 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SLAV 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SLAV 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SLAV 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SODA 308	Research Design for Social Data Analytics 3 Credits	This course engages students in the study and use of research design tools for the analysis of "big data." SODA 308 Research Design for Social Data Analytics (3) The tools of social science and social data analytics affect h
SODA 496	Special Topics 1-18 Credits/Maximum of 999	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SODA 497	Special Topics 1-9 Credits/Maximum of 999	Formal courses offered infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SSED 100N	Foundations of History and Social Studies Concepts for K-8 Teachers 3 Credits	SSED 100N provides foundational historical content integrated with key geographic and economic concepts relevant to social studies curriculum at the elementary and middle level (grades K-8). Its main objective is to suppo
SSED 411	Teaching Secondary Social Studies I 3 Credits	SSED 411 Teaching Secondary Social Studies I is the first methods courses in a two-course sequence in preparation for teaching social studies in the secondary grades (7-12), with emphasis on the the subjects most frequer
SSED 412W	Teaching Secondary Social Studies II 3 Credits	Writing-intensive course focusing on study of the social studies teacher's role in planning instruction; strategies for teaching. SS ED 412W Teaching Secondary Social Studies II (3)Advanced study and practice of teaching so
SSED 430W	Teaching Social Studies in the Elementary Grades 3 Credits	Social studies transforms the social sciences and humanities to promote civic competence (National Council for the Social Studies, 2002). In this course, teacher candidates learn to coordinate and conceptualize the richness
SSED 470	Issues in Social Studies Education 1-6 Credits/Maximum of 6	Concentration on particular issues, trends, and developments in the social studies.
SSED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SSED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SOCW 195	Introduction to Social Work with Field Hours 3 Credits	This course provides an introduction to the social work profession through a historical, ethical, and value-based exploration within a transcultural perspective. A focus on the skills and knowledge base of the profession as we
SOCW 205	Diversity, Equity, Inclusion, and Justice 3 Credits	This course will provide social work students with the knowledge, skills, and values necessary to engage in culturally competent social work practice at the generalist level. An emphasis on activism, advocacy, anti-racism, an
SOCW 215	Introduction to Social Welfare History, Policy, Programs, and Services 3 Credits	This course familiarizes students with the historical development of social welfare history, policy, programs, and services. This section will provide students with a national and global perspective to better understand social w
SOCW 290	Human Behavior and the Social Environment 3 Credits	This course provides students with a conceptual framework to acquire knowledge of human behavior and the social environment with an emphasis on human growth and development theories throughout the life span. Speci
SOCW 300	Social Work Methods - Individuals 3 Credits	The primary focus of this course is to introduce students to direct practice with individuals. Strength based strategies, which value client self-determination while helping clients to obtain their highest functioning level, are an
SOCW 301	Social Work Methods - Groups 3 Credits	The primary focus of this course is to introduce students to the importance of group work with a variety of client populations as well as provide a foundation in group work theories, modalities and facilitation. Social work stud
SOCW 302	Social Work Methods - Families 3 Credits	The primary focus of this course is to introduce students to the importance of work with families and to provide a foundational platform from which to practice. Students and professionals in the field of social work usually car
SOCW 303	Methods - Communities & Organizations 3 Credits	This course will examine the interventions, research, and theories that generalist social workers use in macro practice settings while working with communities, groups, organizations, and public policy. Students will develop s
SOCW 315	Assessment, Documentation, and Effective Interviewing Skills in Social Work 3 Credits	This course will provide students with an overview of the necessary skills, strategies, techniques, theories, and values associated with social work interviewing and case management. Students will learn how to monitor, plan,
SOCW 407	Research Methods in Social Work 3 Credits	This course introduces students to the methods and processes of social work research. A major emphasis of this course is the integration of practiceinformed research and research-informed practice. Social work students w
SOCW 495A	Social Work - Internship 3 Credits	The social work internship is intended to give aspiring social workers experience in clinical settings and non-profit agencies. They will have the opportunity to apply their knowledge to real-world situations and deepen their ex
SOCW 495B	Social Work - Internship 9 Credits	This addvanced internship is an immersive field experience for students pursuring the BSW. Students will be placed in clinical sites and non-profit agencies to deepen their experiences through field work.
SOC 1	Introductory Sociology 3 Credits	Introduces sociological perspectives useful for understanding why societies are the way they are. Covers a selection of many dimensions of social life, such as sexuality, family, religion, education, work, deviance, politics, cul

SOC 1W	Introductory Sociology 3 Credits	Introduces sociological perspectives useful for understanding why societies are the way they are and how they change. Covers a selection of the many dimensions of social life such as sexuality, family, religion, education, wo
SOC 3	Introductory Social Psychology 3 Credits	Social psychology is a discipline that bridges sociology and psychology. Sociology focuses on large, medium, and small scale social patterns and influences while psychology tends to emphasize the individual organism and
SOC 5	Social Problems 3 Credits	Introduces students to the ways that sociologists seek to understand social conditions, events, and behaviors that people think of as "social problems" that need to be solved. Students will examine a range of social problem
SOC 12	Criminology 3 Credits/Maximum of 3	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. A key focus of the class is exa
SOC 12H	Honors Criminology 3 Credits	Criminology is the study of the causes of criminal behavior. As such this course is an introduction to the topic with special focus on the major theories and concepts explaining criminal behavior. This honors version of Introdu
SOC 13	Juvenile Delinquency 3 Credits	Examines juvenile conduct, causes of delinquency, current methods of treatment; and agencies concerned with delinquency. Introduces students to the major theories, concepts, and research findings related to juvenile delin
SOC 15	Urban Sociology 3 Credits	City growth and decline; impact of city life on individuals, families, neighborhoods, and government; urban life-styles.
SOC 19	Sociology of Popular Culture 3 Credits	Applies sociological theories, concepts, and research techniques to studying popular culture as a foundation of social life and human relationships. Covers a range of pop culture from blockbuster movies produced by global
SOC 20N	Critical Media Literacy 3 Credits	We live in a world in which we are surrounded with media messages that influence how we think and act. Since we are so immersed in media culture, it is important that we know how to analyze media content, production an
SOC 23	Population and Policy Issues 3 Credits	Local, national, and international population trends; basic techniques of demographic analysis; population problems; implications for public planning and policy. SOC 23 Population and Policy Issues (3) (GS) (BA) This course
SOC 30	Sociology of the Family 3 Credits	This course examines the family in American society by looking at individually lived family experience, the family as a systematic social institution influenced by larger social processes and social structure and context, and th
SOC 30H	Sociology of Family - Honors 3 Credits	This is an Honors course that enables students to learn, apply, and evaluate basic family sociology concepts, theories, and research. SOC 30H Honors Introduction to Sociology of Marriage and Family (3). This Sociology of F
SOC 35	Sociology of Aging 3 Credits	Introduction to the sociological study of aging. SOC 035 Sociology of Aging (3)(BA) This course meets the Bachelor of Arts degree requirements. The sociology of aging covers social aspects of aging, including common beli
SOC 60N	Society and Cultures in Modern Israel 3 Credits	Israel is often portrayed in media and popular society in incomplete or distorted terms. In some cases, it is presented as a troubled, violent, dangerous place, as a place permeated by long-standing hatred between Jews and
SOC 83	First-Year Seminar in Sociology 3 Credits	This course meets the Bachelor of Arts degree requirements. Each section or offering of this course will be limited to 20 students who will be instructed by an experienced faculty member. Each section will focus on a well-de

SOC 103	Racism and Sexism 3 Credits	This survey course examines racism and sexism as cultural, political and economic processes that shape contemporary social life in the United States. It provides an historical overview of the roots of modern racism and sexi
SOC 109	Sociological Perspectives 3 Credits	Intensive and critical analysis of the bases of the social order, change, values, knowledge, and conflict.
SOC 110	Sociology of Gender 3 Credits	Changing sex role expectations and behavior for men and women in contemporary society. SOC (WMNST) 110 Sociology of Gender (3) (GS;US) (BA) This course meets the Bachelor of Arts degree requirements.This course
SOC 119N	Race, Ethnicity and Culture 3-4 Credits	SOC 119N Race, Ethnicity and Culture (3 or 4 credits) (GS/GH;US/IL)(BA) Additionally, SOC 119N is an Inter Domain course (Social Sciences and Humanities) This course focuses on historical patterns and current status of ra
SOC 120N	Knowing Right from Wrong 3 Credits	"Knowing Right from Wrong" provides a comprehensive understanding of the nature of moral ideas, beliefs, and behaviors in contemporary contexts. What roles do nature and nurture play in the development of moral sensib
SOC 130N	Buddhism and US Society 3 Credits	This course focuses on Buddhism in the United States. We will overview the historical factors that led to the development of Buddhism in the U.S., the many traditions that currently exist in the U.S., the role of Buddhism in th
SOC 145N	The Holocaust and Human Rights 3 Credits	This inter-domain course integrates historical (GH) study of the Holocaust with sociological (GS) perspectives on the Holocaust and human rights. Topical content begins with historical antisemitism ("the longest hatred") and
SOC 150N	Healthy People, Healthy Society 3 Credits	This course examines how individual health and well-being are influenced by social forces and public policy. The course revolves around three questions: How are social life and individual well-being linked? How can social p
SOC 162N	Communicating Care 3 Credits	Communicating Care ENGL 162N / SOC 162N / CAS 162N What do we talk about when we talk about health? Our states of well-being and illness are topics that, like the weather, drive our daily conversations, but we rarely t
SOC 180N	State, Society, and Public Policy 3 Credits	Alexis de Tocqueville called association the ¿mother science¿ of politics and saw voluntary associations as a pillar of American democracy. These associations must compete in what might be called a moral economy of publ
SOC 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SOC 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SOC 201	Presumed Innocent? Social Science of Wrongful Conviction 3 Credits	The criminal justice system is a human creation and some errors are expected. Sometimes guilty parties go free and sometimes innocent people are convicted. In this course, we will employ the perspective of the social scier

SOC 205N	Critical Race Theory in the Humanities and Social Sciences 3 Credits	This course closely examines the place and power of race in America. By tracing the history of how race works in particular American institutions, such as public education, criminal justice, and federal housing, students will g
SOC 207	Research Methods in Sociology 3 Credits	Experiential-based course covering the four main social research methods: available data, survey research, experiments, and field research.
SOC 208N	Visual Representations of the Middle East in the US and Middle East 3 Credits	This course is an introduction to the visual culture, the visual experience and sociological/historical context of images of the Middle East in the US mass media. The focus of the course will be on reading and interpreting visua
SOC 209	Poverty in Africa 3 Credits	African countries are generally considered to be among the poorest countries on the planet. On average, their incomes are low as are their levels of education. Poor African countries also have a range of peculiar characteristi
SOC 210N	Social Determinants of Health 3 Credits/Maximum of 3	If the United States spends more money on medical care than any other country, why does it rank so poorly on many indicators of health and well-being? Why are there so many and important health disparities across differe
SOC 211	Health Inequality: Understanding the Geographies of Life and Death 3 Credits/Maximum of 3	This course provides an introduction to the concepts, measurement and study of health and health inequality across geographic scales from the international to the local scale, and to study health inequality in diverse context
SOC 245N	Globalization, Technology, and Ethics 3 Credits	The objective of Globalization, Technology, and Ethics is to prepare students (especially but not limited to engineering, information sciences & technology, and business students) who are headed into the corporate, NGO (nor
SOC 258N	Introduction to Child Maltreatment and Advocacy Studies 3 Credits	Introduction to the multidisciplinary field of child maltreatment. CMAS (HD FS) 258 Introduction to Child Maltreatment and Advocacy Studies (3) This course will focus on the identification, investigation, service, advocacy, pro
SOC 269	Intercultural Dialogue Concepts and Practice 1-4 Credits	SOC 269 is an immersive experience in small group cross-cultural communication for students who have "international student" status at Penn State. In this class you will study the concepts of facilitated dialogue and how to
SOC 290N	Cinema and Globalization 3 Credits/Maximum of 3	This course explores how films reflect (and in some cases attempt to explain, promote and memorialize) the emergence and transformation of global social phenomena. Through course readings, students will become familiar
SOC 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SOC 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which will fall outside the scope of formal courses.
SOC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SOC 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
SOC 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SOC 300	Preceptorship in Sociology 1-4 Credits/Maximum of 8	Supervised experience as a teaching assistant under the supervision of an approved faculty member.
SOC 309	Sociology of Health 3 Credits	Sociological concepts and principles operative in public and private areas of health and illness, including cultural, ethnic, and ecological factors.
SOC 369	Foundational Theory and Practice in Small Group Facilitation 3-4 Credits	This course is an introduction to dialogue facilitation practices in a small group context with a focus on U.S. and international cultural and social issues. In this course, you will learn to recognize the foundational sociological f
SOC 376	Introduction to Human Service Organizations 3 Credits	This course is designed to acquaint students with the role of various social agencies. The course covers the history of social service organizations in the United States, with an emphasis on the growing diversity of theory and
SOC 381	Junior Honors Seminar in Sociology 1 Credits	Supervised experience in planning the honors thesis and a sociological career.
SOC 400W	Senior Research Seminar 3 Credits	Major concepts and principles of sociology through reading, data analysis, and writing. Capstone course for senior Sociology majors.
SOC 403	Advanced Social Psychology 3 Credits	Analysis of the major theoretical approaches and research findings of contemporary social psychology.
SOC 404	Social Influence and Small Groups 3 Credits	The study of social influence, leadership and status, and social cohesion and commitment processes in small groups.
SOC 405	Sociological Theory 3 Credits	Overview of the development of sociological theory; current issues and controversies.
SOC 406	Sociology of Deviance 3 Credits	Theory and research concerning deviant behaviors and lifestyles viewed as significant departures from a group's normative expectations. SOC (CRIMJ/CRIM) 406 Sociology of Deviance (3) (BA) This course meets the Bache
SOC 408	Urban Ecology 3 Credits	Spatial and temporal aspects of urban structure; urban growth, neighborhoods, racial and ethnic groups, mental illness; cross-cultural perspectives.
SOC 409	Racial and Ethnic Inequality in America 3 Credits	Examines how and why issues related to social, economic, and political inequality among racial groups influence various aspects of US society. Explores the impact of racial inequality and discrimination on individual and coll
SOC 410	The Global Impact of Education 3 Credits	This course examines the global impact of education on human rights, health, economic development, political mobilization, religion, and environmental sustainability. The education revolution has significantly changed the w
SOC 411	Racial and Ethnic Diversity and the American Family 3 Credits	This course will explore the nature and determinants of racial and ethnic variation in family processes in the United States. HD FS 416 (SOC 411) Racial and Ethnic Diversity and the American Family (3) During the last severa
SOC 412	Crime, Social Control, and the Legal System 3 Credits	Legal and extralegal control; public opinion on crime; criminal justice and correctional processes; legal sanctions; control strategies. Field trip.
SOC 413	Advanced Criminological Theory 3 Credits	This course provides an in-depth look at theories of crime and examines influential empirical studies designed to these theories. CRIMJ 413CRIMJ (CRIM/SOC) 413 Advanced Criminological Theory (3)Advanced criminologic
SOC 414	Criminal Careers and the Organization of Crime 3 Credits	Research on and theory of criminal careers and crime organizations, emphasizing recruitment and disengagement; offender characteristics and lifestyles; policy implications.
SOC 416	Sociology of Education 3 Credits	The theoretical, conceptual, and descriptive contributions of sociology to education.

SOC 419	Race and Public Policy 3 Credits	Seminar format course in which sociological theory and research are applied to current race policy issues. The course examines a number of different aspects of race relations and public policy, including the social and biolog
SOC 422	World Population Diversity 3 Credits	Survey of world diversity in national population growth/composition; the impacts of demographic change on the economic/social life of nations/people.
SOC 423	Social Demography 3 Credits	Social demographic perspectives on fertility, mortality, morbidity, migration, population density, demographic transitions, social mobility, family, the aged, and minorities.
SOC 424	Social Change 3 Credits	Critical review of classical and recent theories of social change, emphasizing the transformations occurring in the modern world.
SOC 425	Social Conflict 3 Credits	An analysis of the variables affecting intergroup and international conflict and cooperation.
SOC 428	Homelessness in America 3 Credits	This course aims to inform students about the causes, history, and consequences of homelessness in the United States, with a focus on ethnographic accounts of the day to day lives of people experiencing homelessness. It
SOC 429	Social Stratification 3 Credits	Structure and dynamics of class, caste, and status systems; class differentials and social mobility; current theoretical and methodological issues.
SOC 430	Family in Cross-Cultural Perspective 3 Credits	Sociological analysis of family systems in various cultures and subcultures.
SOC 431	Family Disorganization: Stress Points in the Contemporary Family 3 Credits	Focuses on divorce, remarriage, incest, family violence as well as problems associated with family formation and parent-child relations.
SOC 432	Social Movements 3 Credits	Why and how people mobilize to promote or retard social change. Factors predicting success or failure of social movements.
SOC 435	Perspectives on Aging 3 Credits	An analysis of the demographic, social, and cultural factors affecting the aged population in American society.
SOC 440	Family Policy 3 Credits	An in-depth examination of family policy. HD FS (SOC) 440 Family Policy (3)(BA) This course meets the Bachelor of Arts degree requirements. This course is designed to provide an in-depth examination of family policy. Stud
SOC 445	U.S. Immigration 3 Credits	This class examines theories of U.S. immigration and immigrant adaptation, effects of immigration, and policy. SOC 445 U.S. Immigration (3) The United States has long been known as a nation of immigrants. People have c
SOC 446	Political Sociology 3 Credits	Sociological analysis of types of political organization and their relations with other elements of social life.
SOC 447	Ethnic Minorities and Schools in the United States 3 Credits	Analysis of the social and cultural factors which affect educational outcomes among minority pupils, especially Blacks, Hispanics, and Indians.
SOC 450	Justice and the Environment 3 Credits	Considers notions of justice in relation to environmental philosophy, environmental movements, and general environmental concerns.
SOC 451	Health, Disease & Society 3 Credits	This course provides an introduction to the concepts, measurement and study of inquality across spatial scales and in diverse contexts. SOC 451 Health, Disease & Society (3) (GS) Health is not simply a matter of biology, b
SOC 455	Work and Occupations 3 Credits	Work and occupational life in modern society; work in the past, present, and future.
SOC 456	Gender, Occupations, and Professions 3 Credits	The role of gender in shaping contemporary North American patterns of employment, occupational roles, and statuses.
SOC 457	Jewish Communities: Identity, Survival, and Transformation in Unexpected Places 3 Credits	Examines the global array of smaller Jewish communities that have flourished outside the main urban centers of Jewish settlement. JST 457 / ANTH 457 / SOC 457 Jewish Communities: Identity, Survival, and Transformation
SOC 459	Communities and Crime 3 Credits	In this course you will learn about how crime levels vary across different types of neighborhoods and about the role of different socioeconomic, demographic, spatial, and informal social control aspects of neighborhoods in p
SOC 461	Sociology of Religion 3 Credits	Examines religion through a sociological lens to understand the religious aspects of society and the social aspects of religion. Covers concepts, theories, and research on such topics as the major religious traditions, rituals, c
SOC 466	Solving Community Problems 3 Credits	Explains how communities solve local problems by partnering with researchers, practitioners, and policy makers. Demonstrates how such partnerships help communities tackle complex problems by clarifying their causes, ic
SOC 467	Law and Society 3 Credits	Law and society studies the social origins of law and legal systems; occupational careers, and decision-making of legal officials. SOC (CRIMJ/CRIM) 467 Law and Society (3) (BA) This course meets the Bachelor of Arts degr
SOC 468	Mood-Altering Substances in Society 3 Credits	Perspectives of cultures throughout the world toward mood-altering substances are reviewed in light of public policy, benefits, and problems.
SOC 469	Advanced Theory and Practice in Small Group Facilitation 3-4 Credits/Maximum of 12	This course will build on your knowledge of the foundational facilitator mindsets and communication practices that you developed in SOC 369. You will refine your ability to re-balance the sociological forces that shape huma
SOC 470	Intermediate Social Statistics 4 Credits	Introduces basic methodological concepts and statistical tools commonly used for conducting sociological research. Students will gain experience using research methods and statistics to answer research questions by goi
SOC 471	Qualitative Research Methods in Sociology 3 Credits	Theory, methods, and practice of qualitative data collection, including observation, participant observation, interviewing; supervised projects in natural settings.
SOC 472	Work-Life Practices and Policies 3 Credits	Explore the causes and consequences of conflicts between work, family, and other life commitments, and how these may be resolved. LER 472 Work-Life Practices and Policies (3)(BA) This course meets the Bachelor of Arts
SOC 477	Sociology of Sexuality 3 Credits	An analysis of the demographic, social, and cultural factors affecting the developments and experience of sexuality in contemporary society.
SOC 478	Men and Masculinities 3 Credits	This course is designed to discuss and analyze masculinity in contemporary societies. The focus in this course will be in examining the way masculinity is constructed and the different ways that boys and men (and girls and
SOC 481H	Senior Honors Seminar in Sociology 1 Credits	Supervised experience in planning and writing the honors thesis.
SOC 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SOC 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SOC 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SOC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SOC 496H	Independent Studies 3 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SOC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SOC 499	Foreign Study--Sociology 2-6 Credits/Maximum of 6	Study, in selected foreign countries, of groups, institutions, and social problems.
SWENG 311	Object-Oriented Software Design and Construction 3 Credits	Design, documentation, testing, and construction of software using software engineering strategies embodied in object-oriented programming languages. SWENG 311 Object-Oriented Software Design and Construction (3)
SWENG 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SWENG 396	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SWENG 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SWENG 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SWENG 400	Introduction to Software Engineering Studio 3 Credits	Provides an introduction to the principles of software engineering and includes complementary instruction in one programming language.
SWENG 411	Software Engineering 3 Credits	Software engineering principles including life cycle, dependability, process modeling, project management, requires specification, design analysis, implementation, testing, and maintenance. SWENG 411 Software Engineerir
SWENG 421	Software Architecture 3 Credits	The analysis and design of software systems using canonical design patterns. SWENG 421 Software Architecture (3)This course introduces the frequently-used software infrastructures in software development by experienc
SWENG 431	Software Verification, Validation, and Testing 3 Credits	Introduction to methods of software verification, validation, and testing; mathematical foundations of testing, reliability models; statistical testing. SWENG 431 Software Verification, Validation, and Testing (3) Provides a back
SWENG 452W	Embedded Real Time Systems 3 Credits	The design and implementation of real time systems. SWENG 452W Embedded Real Time Systems (3) Real time operating systems is the study of hardware/software systems in which timing constraints must be met for cor
SWENG 455	Engineering Quality and Security in Software 3 Credits	Software systems are becoming an integral part of our daily life. In many domains the failure of a software system in not acceptable. Such a failure will have catastrophic effects. Hence, the quality of such software systems b
SWENG 465	Web Services 3 Credits	This course introduces the students to a contemporary computing paradigm called "service-oriented computing." SWENG 465 Web Services (3) This course focuses on a new computing paradigm called "service-oriented c
SWENG 480	Software Engineering Design 3 Credits	Concepts of engineering ethics, economy, and project management, senior capstone project selection, and technical communication skills. SWENG 480 Software Engineering Design (3)This course prepares senior software
SWENG 481	Software Engineering Project 3 Credits	Capstone group design projects in software engineering. SWENG 481 Software Design Projects (3) In this course students complete their group senior design project started in SWENG 480. Design groups meet regularly wit
SWENG 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activites on research projects identified on an individual or small-group basis.
SWENG 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SWENG 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SWENG 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

SWENG 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SOILS 71	Environmental Sustainability 3 Credits	This class provides an introduction to environmental sustainability for students with no background in environmental science or soils. The concept of sustainability provides a framework for understanding environmental probl
SOILS 101	Introductory Soil Science 3 Credits	This survey and foundational course introduces students to a broad range of subject matter from most sub-disciplines of soil science. We study a range of soil characteristics and seek to understand their relationship to soil f
SOILS 102	Introductory Soil Science Laboratory 1 Credits	This laboratory course is designed for students who plan to work directly with soils, make land use and management decisions, or to be involved in projects requiring practical application of soil science principals. By conduc
SOILS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SOILS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SOILS 401	Soil Composition and Physical Properties 3 Credits	Advanced study of mineralogical and physical properties of soils which affect soil-plant-water relationships.
SOILS 402	Soil Nutrient Behavior and Management 3 Credits	Soil Nutrient Behavior and Management is a senior/graduate level course that covers the chemical and biological processes that determine the behavior of essential plant nutrients in soils. As this understanding of basic nutri
SOILS 403	Soil Morphology Practicum 2 Credits/Maximum of 4	Students develop field skills to describe soil morphology, classify soils, and make land use interpretations. SOILS 403 Soil Morphology Practicum (2 per semester/maximum of 4)SOILS 403 is an eight week course that provid
SOILS 404	Urban Soils 3 Credits	This course introduces the student to natural and human-influenced soils. SOILS 404 Urban Soils (3) This course introduces the student to the management of soils in urban and suburban settings via comparisons in soil phy
SOILS 405	Hydropedology 3 Credits	Soil and water interactions across scales, integrated studies of landscape- soil-water relationships, fundamental processes of water flow and chemical transport. SOILS (GEOSC) 405 Hydropedology (3)Hydropedology is the
SOILS 412W	Soil Ecology 3 Credits	Introduction to soil organisms; includes interactions between organisms, their processes, and metabolism with a major focus on microorganisms.
SOILS 416	Soil Genesis, Classification, and Mapping 4 Credits	Lecture and laboratory course on the genesis of soils, their classification, mapping, and interpretation for land use. SOILS 416 Soil Genesis and Classification (3) The study of soil genesis, classification, and mapping examine
SOILS 418	Nutrient Management in Agricultural Systems 3 Credits	AGECO 418 / ANSC 418 / SOILS 418 Nutrient Management in Agricultural Systems is a senior-level course that applies the fundamentals of animal, plant and soil sciences to the issues and solutions in the area where livesto
SOILS 419	Soil Environmental Chemistry 3 Credits	Introduction to chemical constituents and processes occurring in soils. Topics include mineral weathering, soil solution chemistry and adsorption of solutes. GEOSC 418GEOSC 418 (SOILS 419) Soil Environmental Chemistry
SOILS 420	Remediation of Contaminated Soils 3 Credits	Basic principles and technical aspects of remediation of contaminated soils. SOILS 420 Remediation of Contaminated Soils (3) Remediation of contaminated soils is an introduction to the basic principles and techniques of r
SOILS 422	Natural Resources Conservation and Community Sustainability 4 Credits/Maximum of 4	Conservation, land-use, and community (soil, water, air, plants, animals, and humans) impacting quality of life and sense of place. SOILS 422 provides the student with practical knowledge of community and natural resource
SOILS 440	Chemistry of the Environment: Soil, Water, and Air 3 Credits	This course is designed for junior and senior undergraduates with some previous chemistry background. The course will advance students¿ understanding of chemical concepts and link them to applications in environmental
SOILS 450	Environmental Geographic Information Systems 3 Credits	Use of geographic information systems (GIS) and digital spatial databases to characterize landscapes for environmental assessment and management.
SOILS 489	Supervised Experience in College Teaching 1-3 Credits/Maximum of 3	Participate with instructors in teaching an undergraduate soil science course; assist with teaching and evaluation and with development of instrucitonal materials.
SOILS 494	Undergrad Research 1-6 Credits/Maximum of 6	Supervised student activities on research projects identified on an individual or small group basis.
SOILS 494H	Honors Thesis Research 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of a SOILS honors thesis The course involves research and other scholarly activities (such as writing) necessary for completion of an appro
SOILS 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SOILS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SOILS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in-depth, a comparatively narrow subject which may be topical or of special interest.
SOILS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPAN 1	Elementary Spanish I 4 Credits	Audio-lingual approach to basic Spanish; writing. Students who have received high school credit for two or more years of Spanish may not schedule this course for credit, without the permission of the department.
SPAN 2	Elementary Spanish II 4 Credits	Audio-lingual approach to basic Spanish continued; writing. Students who have received high school credit for four years of Spanish may not schedule this course for credit, without the permission of the department.
SPAN 3	Intermediate Spanish 4 Credits	Audio-lingual review of structure; writing; reading.
SPAN 10	Intensive Spanish 6 Credits	Basic Spanish grammar, oral, aural, and writing skills (essentially equivalent to SPAN 001 and first half of SPAN 002).
SPAN 20	Intensive Spanish 6 Credits	Basic and intermediate Spanish grammar, oral, aural, and writing skills (essentially equivalent to second half of SPAN 002 and all of SPAN 003).
SPAN 51	Elementary Intensive Spanish for Graduate Students I 3 Credits	Intensive introduction to Spanish: first half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. SPAN 051 Elementary Intensive Spanish for Graduate Students I (3)This is the fi
SPAN 52	Elementary Intensive Spanish for Graduate Students II 3 Credits	Intensive introduction to Spanish: second half of graduate intensive sequence in elementary reading, writing, speaking, listening, cultural contexts. SPAN 052 Elementary Intensive Spanish for Graduate Students II (3)This is t
SPAN 53	Intermediate Intensive Spanish for Graduate Students 3 Credits	Continued intensive study of Spanish at the intermediate level: reading, writing, speaking, listening, cultural contexts. SPAN 053 Intermediate Intensive Spanish for Graduate Students (3)This is the third in a series of three co
SPAN 83	First-Year Seminar in Hispanic Literatures and Cultures 3 Credits	Introduction to the study of Hispanic literatures and cultures. SPAN 083S First-Year Seminar in Hispanic Literatures and Cultures (3) (GH;FYS;IL)(BA) This course meets the Bachelor of Arts degree requirements.The first-year
SPAN 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPAN 100	Intermediate Grammar and Composition 3 Credits	An intermediate level grammar review that also incorporates directed and original composition exercises.
SPAN 100A	Intermediate Grammar and Composition for Spanish Bilinguals 3 Credits	A review of grammar and practice with composition focusing on needs and problems specific to Spanish-speaking bilinguals.
SPAN 100B	Intermediate Grammar and Composition for Students in Medical-Related Fields 3 Credits	Intermediate Grammar and Composition for Students in Medical-Related Fields. SPAN 100B Intermediate Grammar and Composition for Students in Medical-Related Fields (3) The main goals of the course are to help stude
SPAN 100H	Intermediate Grammar and Composition 3 Credits	An intermediate level grammar review that also incorporates directed and original composition exercises.
SPAN 105	Elementary Spanish I for Students in the Agricultural Sciences 4 Credits	The course covers basic Spanish, grammar, and oral, aural, and writing skills for students in the Agricultural Sciences. Students who have received high school credit for two or more years of Spanish may not schedule this c
SPAN 106	Elementary Spanish II for Students in the Agricultural Sciences 4 Credits	Further development of basic Spanish skills and the cultural awareness needed to work with Spanish speakers in the agricultural industries. SPAN 106 Elementary Spanish II for Students in the Agricultural Sciences (4) The c
SPAN 110	Intermediate Conversation 3 Credits	Practice in oral expression in Spanish, with emphasis on aural comprehension, idiomatic usage, and fluency. Use of journalistic materials.
SPAN 130	Iberian Civilization 3 Credits	Spanish 130 is a general education course on Iberian culture and civilization. The goal of this course is to provide the student with a broad, general introduction to the lands, peoples, history, and cultures of the area known as

SPAN 131	Ibero-American Civilization 3 Credits	SPAN 131 Ibero American Civilization (3) (GH; IL; US) (BA): Spanish American and Brazilian life from the Conquest to the present; including studies of literature, art, the indigenous heritage, and contemporary problems. This c
SPAN 131Y	Ibero-American Civilization 3 Credits	Spanish American and Brazilian life from the Conquest to the present; including studies of literature, art, the indigenous heritage, and contemporary problems. The nations and peoples of Latin America have a unique, interest
SPAN 132	Afro-Hispanic Civilization 3 Credits	A general introduction to human and cultural elements of African origin in Spanish- and Portuguese-speaking countries of Latin America. SPAN 132 / AFR 132 / AFAM 132 Afro-Hispanic Civilization (3) (IL) (BA) This course me
SPAN 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPAN 199	Foreign Study--Beginning Conversational Spanish 3 Credits	Grammar review and practice in oral expression and aural comprehension.
SPAN 200	Intensive Grammar and Composition 3 Credits	Intensive grammar review; composition. Designed primarily for majors and prospective majors.
SPAN 200A	Intensive Grammar and Composition for Spanish Bilinguals 3 Credits	This course will enhance writing proficiency in Spanish of Spanish speaking students by targeting common problems characteristic of Spanish speakers.
SPAN 210	Readings in Iberian Civilization 3 Credits	Intermediate level Spanish readings dealing with Iberian life from pre-historic times to the present.
SPAN 210N	Multilingual and Intercultural Communication 3 Credits/Maximum of 6	SPAN 210N Multilingual and Intercultural Communication course will showcase the fundamental components of the intersection of language and culture through humanities and social science. The purpose of this course is to
SPAN 215Q	The Science of Spanish: A Beginner's Guide to Hispanic Linguistics 3 Credits	Linguistics is the empirical and systematic study of language. In other words, linguists apply scientific methods to the study of language. Like all scientific disciplines, linguistics addresses broad issues as well as many very s
SPAN 220	Readings in Ibero-American Civilization 3 Credits	Intermediate level Spanish readings dealing with Ibero-American life from the pre-conquest to the present.
SPAN 253W	Introduction to Hispanic Literature 3 Credits	Introduction to generic distinctions, critical methods, and approaches to Hispanic literature. SPAN 253W Introduction to Hispanic Literature (3)(BA) This course meets the Bachelor of Arts degree requirements. During the sem
SPAN 269N	Theater and Performance 3 Credits	In Spanish Theatre and Performance, the students will read and analyze a variety of Spanish and Latin American plays from a literary perspective as well as from the perspective of a director, designer, and actor. We will use t
SPAN 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SPAN 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPAN 297N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course
SPAN 299	Foreign Study--Intermediate Conversational Spanish 3 Credits	Grammar review and practice in oral expression and aural comprehension.
SPAN 300	Advanced Grammar and Composition Through Reading 3 Credits	Development of advanced grammar and composition skills through reading texts by native speakers and adapting their techniques for original compositions.
SPAN 300B	Advanced Grammar and composition for Students in Medical-related Fields 3 Credits/Maximum of 3	Advanced Grammar and Composition for Students in Medical-related Fields.
SPAN 305	Spanish for Social Services 3 Credits	Provides practical language applications for students going to social work, psychology, and the legal and medical professions. SPAN 305 Spanish for Social Services (3) SPAN 305 Spanish for Social Services (3) provides pra
SPAN 310	Business Spanish 3 Credits	No description.
SPAN 314	Spanish Sounds 3 Credits	Spanish phonetics and phonemics; systematic means of correcting pronunciation defects; other audio-lingual applications.
SPAN 315N	Spanish and Spanish-speakers in the U.S. 3 Credits	In this course, we investigate various aspects of the language(s) and language behaviors of U.S. Latinos. The course is premised on the idea that language is a crucial component in the formation of identity. To understand La
SPAN 316	Building Words and Sentences in Spanish 3 Credits	Building words and sentences in Spanish. Analysis of Spanish work structure and its relationship to syntactic structures. SPAN 316 Building Words and Sentences in Spanish (3) "Building words and sentences in Spanish" is
SPAN 326	Reading the BorderLands: Geography and Identity Along the U.S.-Mexico Border 3 Credits	This course examines representations of the U.S.-Mexico border in relation to the actual geographic space. SPAN 326 Reading the Border/Lands (3) (GH;US) This class will center on discussions of the U.S.-Mexico borderlan
SPAN 353	Topics in the Cultures of Spain 3 Credits	This course offers a comparative study of the literature, artistic manifestations, intellectual traditions, and cultural productions of Spain. This course offers a comparative study of the literature, artistic manifestations, intellectu
SPAN 354	Topics in Border Studies 3 Credits	This course offers a study of borders as key sites of contact, exchange, conflict, hybridity, and identity production in and across varied contexts of Spanish, Latin American, and/or Latina/o culture(s). This course offers a stu
SPAN 355	Topics in the Cultures of Latin America 3 Credits	This course offers a comparative study of the literatures, artistic manifestations, intellectual traditions, and cultural productions of the Latin American region. This course offers a comparative study of the literatures, artistic ma
SPAN 356	Topics in the Cultures of the Americas 3 Credits	This course offers a comparative study of the literatures and cultures of the Americas, bringing Latin America into dialogue with the United States (and in some instances Canada). This course offers a comparative study of th
SPAN 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SPAN 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPAN 399	Foreign Study--Spanish 1-12 Credits/Maximum of 12	Advanced training in Spanish language skills.
SPAN 410	Advanced Oral Expression and Communication 3 Credits	Emphasis on achieving practical command of spoken Spanish and the comprehension of native speech. Use of journalistic materials.

SPAN 410H	Advanced Oral Expression and Communication 3 Credits	Emphasis on achieving practical command of spoken Spanish and the comprehension of native speech. Use of journalistic materials.
SPAN 411	The ABCs of Bilingualism: Acquisition, Brain, and Community 3 Credits	In SPAN 411, students will learn to understand the bilingual landscape of the Spanish-speaking world and its consequences for communities and individuals. SPAN 411 the ABCs of Bilingualism: Acquisition, Brain, and Comr
SPAN 412	Translation 3 Credits	Techniques of written translation from Spanish to English and vice versa, particularly for business, literature, and social work. Students will learn translation theory and best practices, as well as strategies for overcoming the r
SPAN 412H	Translation 3 Credits	Techniques of oral and written translation from Spanish to English and vice versa, particularly for business, literature, and social work.
SPAN 413	Interpretation 3 Credits	Introduction to the art of interpretation, with particular attention to the professions for which it is most commonly required. SPAN 413 Interpretation (3) Spanish 413 will provide students with demonstrations and exercises de
SPAN 417	How Languages Are Learned 3 Credits	This class is a linguistics course that focuses on language acquisition in children and adults. Linguistics is the scientific study of language and its structure, and linguistic inquiry focuses on various levels of language: phonolo
SPAN 418	The Evolution of Spanish 3 Credits	The emergence and development of the sounds and forms of Spanish.
SPAN 418H	The Evolution of Spanish 3 Credits	The emergence and development of the sounds and forms of Spanish.
SPAN 420	Spanish for Business and International Trade 3 Credits	Spanish 420, Spanish for Business and International Trade, is an introduction to business administration (organizational structure, human resources, marketing, accounting, cross-cultural etiquette, business ethics, etc.) withir
SPAN 423	Spanish in Contact with Other Languages 3 Credits	Multilingualism in the Spanish Speaking World explores the multitude of languages spoken in Spanish-speaking countries, including the languages and dialects of Spain, indigenous languages of Mexico, Central, and South A
SPAN 424	Facts and Myths about Learning Spanish 3 Credits	This course focuses on key aspects of the acquisition of Spanish as a second language. The course will address questions such as: Can watching Netflix help me learn Spanish? What type of practice, and how much, can he
SPAN 425	The Spanish Your Teachers Never Taught You 3 Credits	Have you ever failed to understand someone because they didn't use the word "whom" properly? There is often a big difference between how one is "supposed to" use a language, and how the language is actually used in tl
SPAN 439	Don Quijote 3 Credits	Thorough study of the masterpiece, including its sources, genesis, language, style, success, and influence.
SPAN 470	Youth Cultures in Latin(a/o) America 3 Credits	Young people have been at the center of political and cultural revolutions around the world and throughout history. For example, revolutions, urban movements, ethnic/racial pride, LGBTQ+, feminist movements, music basaa
SPAN 472	The Contemporary Spanish American Novel 3 Credits	The regionalist and social novel since 1910, together with the social background.
SPAN 474	Many Mexicos 3 Credits	Overview of Mexican literature, culture and history from pre-colonial period to present.
SPAN 476	Masterpieces of Spanish American Literature 3 Credits	Reading, analysis, and discussion of selected major works representative of Spanish American prose and poetry.
SPAN 479	U.S. Latina/o Culture en Espanol 3 Credits	This course is conducted in Spanish and will analyze some of the central themes that shape the diverse Latina/o experiences in the United States. Some of the main topics that the course will address include: the politics of li
SPAN 488	War, Revolution, and the Struggles for Modernity: Spain 1898-1939 3 Credits	This course, conducted in Spanish, examines Spanish literature from 1898 to 1939.
SPAN 490	Masterpieces of Spanish Prose 3 Credits	Reading, analysis, and discussion of selected masterpieces of Spanish novels, short stories, etc.
SPAN 491	Masterpieces of Spanish Drama and Poetry 3 Credits	Reading, analysis, and discussion of selected masterpieces of Spanish drama and poetry.
SPAN 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SPAN 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SPAN 496H	Independent Studies 3 Credits	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SPAN 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPAN 499	Foreign Study--Spanish 1-12 Credits/Maximum of 12	Contemporary Spanish life and civilization. Emphasis on post-Civil War period: literature, arts, and sociopolitical problems.
SPLED 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPLED 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPLED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPLED 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPLED 395W	Observing Special Education Settings Spanning Across School Transitions 3 Credits	Observation of Special Education Settings and Transitions through the Systems provides students with an opportunity to (a) observe exceptional individuals in a supervised setting, (b) become familiar with methods of observ
SPLED 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SPLED 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SPLED 400	Inclusive Special Ed Foundations: Legal, Characteristics, Collaboration, Assessment, 4 Credits	Legal issues, learner characteristics, collaboration skills, assessment, and behavior management related to educating students with disability in inclusive settings. SPLED 400 Teaching Exceptional Students in General Educa
SPLED 400H	Inclusive Special Ed Foundations: Legal, Characteristics, Collaboration, Assessment, 4 Credits/Maximum of 4	Legal issues, learner characteristics, collaboration skills, assessment, and behavior management related to educating students with disability in inclusive settings. SPLED 400 Teaching Exceptional Students in General Educa
SPLED 401	Motivating Exceptional Learners 4 Credits	Group and individual techniques to promote student task engagement and prosocial behavior.
SPLED 402	Human Rights: Historical and Current Issues in Special Education 3 Credits	Litigation, legislation, regulation, and advocacy issues impacting on educational and related services for individuals with academic and/or physical disabilities.
SPLED 403A	Evidence-Based Instruction for Elementary Students with Disabilities in Reading, M 3 Credits	Evidence-based methods for design, delivery, and adaption of instruction for elementary students with disabilities in reading, mathematics, and writing. SPLED 403A Evidence-Based Instruction for Elementary Students with
SPLED 403B	Evidence-Based Methods for Teaching Secondary Students with Disabilities in Inclu 3 Credits	Evidence-based methods for designing, delivering, and adapting instruction for students with disabilites in inclusive secondary education settings. SPLED 403B Evidence-Based Methods for Teaching Secondary Students w
SPLED 404	Working with Families and Professionals in Special Education 3 Credits	Strategies for productive interactions between special educators and others such as colleagues, employers, parents, service providers, professionals, and students.
SPLED 408	Meeting Instructional Needs of English Language Learners with Special Needs 3 Credits	A major objective of this course is for students to be able to develop or modify instructional plans that reflect evidence based practices for adapting for the needs of English Language Learners (ELL) with special needs. The c
SPLED 409A	Fundamental Literacy Skills for Students with Special Needs 3 Credits	Effective reading curriculum and teaching methods to teach students with special needs. SPLED 409A Fundamental Literacy Skills for Students with Special Needs (3) Effective classroom-based assessment, curriculum deve
SPLED 409B	Writing and Content Literacy for Students with Special Needs 3 Credits	Effective curriculum and materials for teaching writing and content literacy to students with special needs. SPLED 409B Writing and Content Literacy for Students with Special Needs (3) Effective application of classroom-ba
SPLED 409C	Mathematics Instruction for Students with Special Needs 3 Credits	Research-based practices for teaching mathematics skills to students with special needs. SPLED 409C Mathematics Instruction for Students with Special Needs (3) Research-based assessment, instruction, and intervention
SPLED 410	Culturally Responsive Pedagogy in Special Education 3 Credits	Culturally Responsive Pedagogy (CRP) in Special Education is designed to help students recognize and appreciate diversity in the classroom specifically related to students with exceptionalities. This course will develop ways
SPLED 411	Intervention for Students with Severe Disabilities 3 Credits	Assessment, teaching strategies, curricula, materials, and assistive techniques for use with individuals having severe disabilities.
SPLED 412	Instruction for Students with Mild Disabilities 3 Credits	The purpose of SPLED 412 is to introduce appropriate methodology for teaching academic skills to students with learning disabilities or those students who experience academic difficulties. The majority of the course deals v
SPLED 415	Early Intervention and Early Childhood Special Education (EI/ECSE) 3 Credits/Maximum of 4	This course provides an introduction to Early Intervention/Early Childhood Special Education (EI/ECSE). Students will discuss the historical contexts and origins of early childhood special education affecting children with dev
SPLED 418	Technologies for Persons with Disabilities 3 Credits	This course will teach students the role of the special education teacher in supporting the use of assistive technology (AT) by individuals with disabilities in school and community settings. Students will learn the role of the sp
SPLED 419	Assistive Technology for General Education Teachers 2-3 Credits	Strategies to support use of assistive technologies by students with disabilities in general education classrooms. SPLED 419 Assistive Technology for General Education Teachers (2-3) This course will teach students the role
SPLED 420	Culture & Disability: Study Abroad in Ireland 6 Credits	Study aspects of culture and disability through lecture, visiting Irish disability service agencies, and guest speakers from various disability agencies. This course is designed to increase student awareness of disability from a c
SPLED 425	Foundations of Special Education, Etiologies, Law, and Implications for Practice 3 Credits	This course provides an introduction to all exceptionalities included in special education programs as delineated by the most recent Federal legislation guiding service for individuals with special needs. An important compone
SPLED 454	Assessment for Instruction 3 Credits	Students enrolled in this course will gain knowledge related to research, theory, and practice of assessing learners with special needs across various education settings. After enrolling in this course, students will be able to de
SPLED 461	Introduction to Autism Spectrum Disorders: Issues and Concerns 3 Credits	Overview of issues, characteristics, and evidenced-based assessment strategies, and approaches for individuals with autism/PDD. SPLED 461 Introduction to Autism Spectrum Disorders: Issues and Concerns (3) This cours
SPLED 462	Autism and Applied Behavior Analysis 3 Credits	This course addresses principles of applied behavior analysis and empiricism related to instruction and special issues affecting individuals with autism. SPLED 462 Autism and Applied Behavior Analysis (3) This world campu
SPLED 463	Communication and Social Competence 3 Credits	Overview of deficits and strategies in speech, language, and communication across the Autism Spectrum Disorder. SPLED 463 Communication and Social Competence (3)Communication and Social Competence is the third
SPLED 464	Assessment and Curriculum 3 Credits	Overview of screening, diagnosis, and identification of skills in developmental domains and curricula for individuals with autism. SPLED 464 Assessment and Curriculum (3)Assessment and Curricula is the fourth course in th

SPLED 495	**SPECIAL TOPICS** 3-15 Credits/Maximum of 15	No description
SPLED 495D	Professional Development for Special Education Teacher Candidates 3 Credits	As a new professional in the school, special educators must embrace the school and community to provide a welcoming, safe and equitable environment for all children. In this professional development course, special educ
SPLED 495E	Experience with Exceptional Children 3 Credits	Supervised and guided field experience in a variety of possible settings (e.g. schools, day care centers, vocational settings) where students will practice lesson design, deliver instruction, and develop appropriate instructional
SPLED 495F	Practicum in Special Education 12 Credits	The student teaching experience is a culmination of previous coursework. As new teachers, graduates will enter classrooms prepared to meet the individualized academic and social needs of students. The student will be exp
SPLED 495G	Experience with an Integrated Inclusion Classroom 3-4 Credits/Maximum of 4	Supervised teaching in integrated general classrooms with activities in curriculum- based assessment, data-driven intervention, direct instruction with students in need.
SPLED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SPLED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
STAT 100	Statistical Concepts and Reasoning 3 Credits	Statistics is the art and science of decision making in the presence of uncertainty. The purpose of Statistics 100 is to help students improve their ability to assess statistical information in both everyday life and other Universit
STAT 184	Introduction to R 3 Credits	R is a powerful, open-source programming language used widely for applications in statistics and data science. It is easily extendable, and thousands of user-created packages are publicly available to extend its capabilities.
STAT 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
STAT 200	Elementary Statistics 4 Credits	Descriptive statistics, frequency distributions, probability, binomial and normal distributions, statistical inference, linear regression, and correlation. STAT 200 is a standard first course in statistics. Student who have successfu
STAT 240	Introduction to Biometry 3 Credits	Statistical analysis, sampling, and experimentation in the agricultural sciences; data collection, descriptive statistics, statistical inference, regression, one factor AOV, probability. Students may take only one course from STAT
STAT 250	Introduction to Biostatistics 3 Credits	Statistical analysis and interpretation of data in the biological sciences; probability; distributions; statistical inference for one- and two-sample problems. STAT 250 is a standard first course in statistics, with an emphasis on a
STAT 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
STAT 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
STAT 300	Statistical Modeling I 3 Credits	This course is designed to serve as a bridge between introductory statistics (including AP statistics) and more advanced applied statistics courses. The course will emphasize applied statistical modeling for real data using co
STAT 318	Elementary Probability 3 Credits	Combinatorial analysis, axioms of probability, conditional probability and independence, discrete and continuous random variables, expectation, limit theorems, additional topics. Students who have passed either MATH(STA
STAT 319	Elementary Mathematical Statistics 3 Credits	Statistical inference: principles and methods, estimation and testing hypotheses, regression and correlation analysis, analysis of variance, computer analysis. Students who have passed STAT (MATH) 415 may not schedule t
STAT 380	Data Science Through Statistical Reasoning and Computation 3 Credits	A case study-based course in the use of computing and statistcal reasoning to answer data-intensive questions. STAT 380 Data Science Through Statistical Reasoning and Computation (3) This course addresses the fact tha
STAT 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
STAT 400	Statistical Modeling II 3 Credits	This course is intended to build directly upon STAT 300 (Applied Statistical Modeling I) for students pursuing a major in statistics or a closely related program. Topics include likelihood-based inference, generalized linear mod
STAT 401	Experimental Methods 3 Credits	Random variables; probability density functions; estimation; statistical tests, t-tests; correlation; simple linear regression; one-way analysis of variance; randomized blocks.
STAT 414	Introduction to Probability Theory 3 Credits	STAT(MATH) 414 is an introduction to the theory of probability for students in statistics, mathematics, engineering, computer science, and related fields. The course presents students with calculus-based probability concepts
STAT 415	Introduction to Mathematical Statistics 3 Credits	A theoretical treatment of statistical inference, including sufficiency, estimation, testing, regression, analysis of variance, and chi-square tests.
STAT 416	Stochastic Modeling 3 Credits	Review of distribution models, probability generating functions, transforms, convolutions, Markov chains, equilibrium distributions, Poisson process, birth and death processes, estimation.
STAT 418	Introduction to Probability and Stochastic Processes for Engineering 3 Credits	Introduction to probability axioms, combinatorics, random variables, limit laws, and stochastic processes. Students may take only one course from MATH414 / STAT 414 and MATH 418 / STAT 418 for credit. STAT 418 / MATH
STAT 440	Computational Statistics 3 Credits	Topics related to computing in statistics, including numerical linear algebra, optimization, simulation, numerical integration, and bootstrapping. STAT 440 Computational Statistics (3)This course introduces many important id
STAT 460	Intermediate Applied Statistics 3 Credits	Review of hypothesis testing, goodness-of-fit tests, regression, correlation analysis, completely randomized designs, randomized complete block designs, latin squares.
STAT 461	Analysis of Variance 3 Credits	Analysis of variance for single and multifactor designs; response surface methodology.
STAT 462	Applied Regression Analysis 3 Credits	Introduction to linear and multiple regression; correlation; choice of models, stepwise regression, nonlinear regression.
STAT 463	Applied Time Series Analysis 3 Credits	Identification of models for empirical data collected over time; use of models in forecasting. STAT 463 Applied Time Series Analysis (3)This course covers many major topics in time series analysis. Students will learn some th
STAT 464	Applied Nonparametric Statistics 3 Credits	Tests based on nominal and ordinal data for both related and independent samples. Chi-square tests, correlation.
STAT 466	Survey Sampling 3 Credits	Introduction to design and analysis of sample surveys, including questionnaire design, data collection, sampling methods, and ratio and regression estimation. STAT 466 Survey Sampling (3)This course covers classical samp
STAT 470W	Problem Solving and Communication in Applied Statistics 3 Credits	This is a capstone course intended primarily for undergraduate statistics majors in their last semester prior to graduation. The course is designed to reinforce problem solving and communication skills through development o
STAT 480	Introduction to SAS 1 Credits	Introduction to SAS with emphasis on reading, manipulating and summarizing data. STAT 480 Introduction to SAS (1) STAT 480 addresses the fundamentals of the SAS programming language. It addresses the programming
STAT 481	Intermediate SAS for Data Management 1 Credits	Intermediate SAS for data management. STAT 481 Intermediate SAS for Data Management (1) STAT 481 builds on the skills and tools learned in STAT 480 to provide intermediate level ability to use the Statistical Analysis Sys
STAT 482	Advanced Topics in SAS 1 Credits	Advanced statistical procedures in SAS, including ANOVA, GLM, CORR, REG, MANOVA, FACTOR, DISCRIM, LOGISTIC, MIXED, GRAPH, EXPORT, and SQL. STAT 482 Advanced Topics in SAS (1) STAT 482 builds on the sk
STAT 483	Statistical Programming in SAS 3 Credits	Introduction, intermediate, and advanced topics in SAS. Credit can not be received for both STAT 483 and STAT 480/481/482. STAT 483 Statistical Analysis System Programming (3) The three-credit STAT 483 course is a con
STAT 484	The R Statistical Programing Language 1 Credits/Maximum of 1	Builds an understanding of the basic syntax and structure of the R language for statistical analysis and graphics. R is a popular tool for statistical analysis and research used by a growing number of data analysts inside corpo
STAT 485	Intermediate R Statistical Programming Language 1 Credits	Builds an understanding of the basic syntax and structure of the R language for statistical analysis and graphics. R is a popular tool for statistical analysis and research used by a growing number of data analysts inside corpo
STAT 487	Introduction to Statistical Analysis with Python 2 Credits	Due to the pervasiveness of Python as a statistical analysis tool, there is a demand for statisticians to learn Python to perform descriptive and inferential data analysis. The course will take a case study approach to introduce
STAT 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
STAT 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
STAT 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships.
STAT 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
STAT 496A	**SPECIAL TOPICS** 1-18 Credits	No description
STAT 496H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
STAT 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
STAT 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SCM 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SCM 200	Introduction to Statistics for Business 4 Credits	SCM 200 introduces basic statistical concepts and models within the framework of business problems and applications. Students learn about the usefulness of business statistics to decision making, how to perform basic st
SCM 200H	Honors Introduction to Statistics for Business 4 Credits	SCM 200H Honors Introduction to Statistics for Business introduces basic statistical concepts and models within the framework of business problems and applications. Students learn about the usefulness of business statist
SCM 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SCM 301	Supply Chain Management 3 Credits	SCM 301 is an introductory course that provides an overview of key logistics and supply chain management processes, concepts, and methodologies. Emphasis is given to the framework for supply chain management, the a
SCM 301H	Supply Chain Management - Honors 3 Credits	SCM 301H focuses on supply chain management concepts, principles, and methodologies for effective and efficient management of product and service operations across supply chain networks. The course explores the fra
SCM 320	Transport Systems 3 Credits	Strategic role of freight transportation systems and services in supply chain networks. Not available to baccalaureate business students in Smeal. SCM 320 Transport Systems (3) SCM 320 develops an understanding of the

SCM 340	Introduction to Supply Chain Analytics 3 Credits	Supply Chain Analytics studies key decision areas in supply chain design and operation using data driven methodologies. The course introduces students to strategic, tactical and operational supply chain problems including
SCM 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SCM 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SCM 404	Demand Fulfillment 3 Credits	Analysis of demand fulfillment and the role of distribution operations management in the supply chain. SCM 404 Demand Fulfillment (3)This course introduces the student to how customer demand is managed and how subs
SCM 405	Manufacturing and Services Strategies 3 Credits	Investigates manufacturing and services strategies in supply chain networks. SCM 405 Manufacturing and Services Strategies (3)This course examines manufacturing and services strategies, with special emphasis given to
SCM 406	Strategic Procurement 3 Credits	Analysis of strategic procurement in the supply chain. SCM 406 Strategic Procurement (3) SCM 406 provides an in-depth analysis of the procurement process and supplier management, with strong emphasis placed on mar
SCM 415	Project Portfolio Management and Organizations 3 Credits	An advanced course in project management focusing on portfolio planning and control within the context of specific organizational challenges. MGMT 415 Project Portfolio Management and Organizations (3) Project Portfoli
SCM 416	Warehousing and Terminal Management 3 Credits	Administration of warehouse and terminal functions in logistics systems, with analysis of customer service, forecasting, inventory, investment, design, and operation. Not available to baccalaureate business students in Smea
SCM 421	Supply Chain Analytics 3 Credits	Models and Methodologies for supply chain analysis. SCM 421 Supply Chain Analytics (3) This course provides a spreadsheet-based, example-driven approach to learn about important supply chain models, problems, and
SCM 445	Operations Planning and Control 3 Credits	Aggregate production planning procedures, disaggregation methods in hierarchical production planning, master production scheduling, material requirements planning, lot-sizing, and capacity planning. Not available to bacca
SCM 448	Building Sustainable Supply Chains 3 Credits	This course looks at sustainability from a business perspective. In particular, it focuses on how to design businesses and their supply chains that are both economically and environmentally sustainable. Firms are under increa
SCM 450W	Strategic Design and Management of Supply Chains 3 Credits	Strategic design and management of supply chains. SCM 450W Strategic Design and Management of Supply Chains (3) This course is about the strategic design and effective operation of supply chains. It will help prepare
SCM 455	Logistics Systems Analysis and Design 3 Credits	Customer service, inventory management, transportation, warehousing, purchasing, international logistics, site location planning and analysis, and total cost analysis.
SCM 460	Purchasing and Materials Management 3 Credits	Purchasing policies, procedures, order specifications and agreements, supplier selection, and the role of purchasing in production planning and inventory management. Not available to baccalaureate business students in Sm
SCM 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SCM 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SCM 495	Internship in Supply Chain Management 1-3 Credits/Maximum of 6	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SCM 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SCM 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SCM 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SUR 111.00	Plane Surveying 4 Credits	Plane surveying principles; basic measurement statistics; use and care of equipment; traversing, area, and coordinate computations; differential leveling; RTK-GPS measurements. SUR 111 Plane Surveying (4) The objective
SUR 121.00	Elementary Surveying 3 Credits	The objectives of this first course in surveying are to introduce the surveying profession and cover the fundamental surveying principles, techniques, and practices. Concepts covered in the course include: Introduction to sur
SUR 122.00	Control Surveying 3 Credits	This course builds on the concepts learned in SUR 121 to establish vertical and horizontal control using traversing procedures and GNSS techniques. Students will be able to: (1) collect angle and distance measurements; (2)
SUR 132.00	Surveying Software Analysis Tools 3 Credits	SUR 132 is an introductory course in computer programs that are frequently being used in surveying for mapping, land information systems, and surveying product delivery. Standard industry software is used, including but n
SUR 162.00	Methods in Large Scale Mapping 3 Credits	CAD applications in mapping; data collection using traditional and satellite techniques; map compilation; COGO. SUR 162 Methods in Large Scale Mapping (3) SUR 162 is the basic mapping course in the curriculum. The co
SUR 212.00	Route and Construction Surveying 4 Credits	Circular, compound, spiral horizontal curves; equal, unequal tangent vertical curves; alignments, earthwork; control, building, pipe, street, and as-built construction surveys. SUR 212 Route and Construction Surveying (4) SU
SUR 213.00	Route and Construction Surveying 3 Credits	SUR 213 builds upon and uses concepts from SUR 121 and SUR 122 applies them in route and construction applications. The course covers stake out subdivisions and buildings for development, horizontal and vertical roa
SUR 221.00	Large-scale Mapping Surveys 3 Credits	SUR 221 is the basic mapping course in the curriculum, which also considers project management and client considerations. The course begins with client considerations and outlying what products will be delivered; typicall
SUR 222.00	Photogrammetry 3 Credits	SUR 222 covers the basic principles of aerial photography and the geometry of the optics in relation to aerial cameras. Mathematical theories for refining and processing measurements from single aerial photographs are dev
SUR 241.00	Surveying Measurement Analysis 3 Credits	Surveying Measurement Analysis explores the fundamental concepts of statistical error analysis with applications to surveying measurements. It covers the normal distribution function and theories describing the fundamenta
SUR 262.00	Coordinate Systems in Map Projections 2 Credits	Introduction to coordinate systems used in the Lambert, Mercator, Transverse Mercator, and UTM map projections; reduction of surveying observations. SUR 262 Coordinate systems in Map Projections (2) Coordinate syste
SUR 272.00	Cadastral Surveying 3 Credits	Evolution of land records systems; PLS: property ownership and conveyancing; common and statute law; rules of construction; boundary location procedures.
SUR 296.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SUR 297.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
SUR 313.00	Integrated Surveying 3 Credits	The course objectives are directed toward providing instruction and practical experience in activities common in surveying practice, experience requiring the integration of virtually all abilities gained in previous surveying cou
SUR 341.00	Adjustment Computations 3 Credits	Adjustment computations covers the basic theory and mechanics of a least squares adjustment using the traditional surveying observations of distances, angles, azimuths, and elevation differences. It explores the theory of
SUR 351.00	Geodetic Models 3 Credits	Three dimensional geodesy; computations on the ellipsoid; map projections; reduction of observations and elements of physical geodesy. SUR 351 Geodetic Models (3) Course covers the basic gravimetric and geometric ge
SUR 352.00	Geometric and Physical Geodesy 3 Credits	This course provides a thorough background on geometric and physical geodesy. With respect to Geometric Geodesy the course covers: Computations to the ellipsoid and coordinate transformations between various coordi
SUR 361.00	Surveying Laser Scanning 3 Credits	Introduction to laser scanning surveying. Principles of Light Detection And Ranging (LiDAR) technologies from terrestrial and mobile platforms. The process of point cloud generation from LiDAR techniques are discussed. Th
SUR 362.00	Introduction to Geospatial Information Engineering 3 Credits	Geospatial information technology provides a means through which data about land can be analyzed to obtain information that may be used to support land management decisions. The objective of this course is to teach st
SUR 372W	Legal Aspects of Land Surveying 3 Credits	Legal research; rules of evidence including classification and evaluation; unwritten rights; land description composition; easements.
SUR 373W	Cadastral and Legal Aspects of Surveying 4 Credits	Cadastral surveying and law related to land surveying and property rights are the basis of this course. The course provides a review of the evolution of land records systems in the US. The creation and retracement of sectio
SUR 381.00	Stormwater Hydraulics and Hydrology 4 Credits	Stormwater Management Hydraulics and Hydrology is an elementary treatment of common design practices used to create stormwater management plans for small to medium sized land development projects. Erosion and
SUR 382.00	Subdivision Design 2 Credits	Introduction to Land Development Design is targeted for students in the Surveying Engineering Technology program. The course covers the basic surveying principles as these are applied to residential development and the
SUR 421.00	Advanced Photogrammetry 3 Credits	Advanced mathematical methods for processing digital imagery and point clouds, and applications in surveying. This course is designed to provide a deeper understanding of the mathematical models used in Photogramme
SUR 422.00	Digital Photogrammetry 3 Credits	Mathematical methods for processing digital imagery, creating digital elevation models and ortho-photographs, and applications in spatial data infrastructure. SUR 422 Digital Photogrammetry (3) As a continuation to an exis
SUR 424.00	Monitoring Applications in Surveying 3 Credits	Engineering structures, natural and man-made, must be monitored periodically to ensure their safety of operation. Monitoring is a challenging task that necessitates robust surveying methods. This course discusses advance
SUR 432.00	Geospatial Applications in Surveying 3 Credits	Airborne and satellite methods are increasingly used in surveying applications for topographic mapping, building extraction and modeling, and monitoring. This course focuses on advanced geospatial principles and techniq
SUR 441.00	Data Analysis and Project Design 3 Credits	Post least-squares adjustment analysis is important for decision making in surveying applications. The course covers statistical testing for blunder detection in control networks with measurements originating from GNSS and
SUR 455.00	Precise Positioning Systems 3 Credits	The course provides a background on stellar coordinate systems and reviews the main geodetic reference coordinate systems used with GNSS technology. Satellite orbital theory provides the basis for understanding GNSS
SUR 462.00	Parcel-Based Geospatial Information Systems 3 Credits	Acquisition processing of land parcel data; development of land information system and applications in geospatial information technology. SUR 462 Parcel-Based Geospatial Information Systems (3) People and cultures aro
SUR 471.00	Professional Aspects of Land Surveying 3 Credits	Professional Aspects of Land Surveying is a capstone course focusing on the ethical issues and legal limits of the surveying practice. (e.g., statutes, legal cases affecting professional registration, responsibility, and ethics). S
SUR 482.00	Land Development Design 3 Credits	Land development design is designed for seniors in Surveying Engineering and covers the basic principles of residential design and development. The objective of the course is to provide students with exposure to elements
SUR 490.00	Seminar in Surveying 1 Credits	Individual or group work in surveying.
SUR 496.00	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an indiviudal basis and that fall outside the scope of formal courses.
SUR 497.00	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

SUST 150N	The Science of Sustainable Development 3 Credits	This course will focus on how human society depends on the environment for its continued existence. It will examine several major topics relating to environmental and social sustainability including ecosystem conservation,
SUST 200	Foundations of Leadership in Sustainability 3 Credits	SUST 200 will teach the fundamental concepts of social, environmental, and economic sustainability and the interrelationships between these metrics and human behavior. The goal of this course is to provide students with a
SUST 242N	Issues in Sustainability 3 Credits	This course is part of the General Education Integrative Studies curriculum. As such, it combines Humanites (GH) and Social and Behavioral Sciences (GS) through the topic of sustainability. Students will read, write, and thinl
SUST 295	Internship 1-6 Credits/Maximum of 6	Supervised off-campus, non-group instruction including individual field experience, practicums, or internships. Written and oral critique of activity required.
SUST 325N	Health and Environmental Sustainability 3 Credits	NURS / SUST 325N: Health in Environmental Sustainability; 3 credits. (Inter-Domain), (GHW), (GN). People live in constant contact with the environment: the built environment of homes, offices, and industrial facilities, as well
SUST 481	Local-Scale Climate Policy I: GHG Inventories 3 Credits	ESP 481 is the first course in a two-course series for the Local Climate Action Program. ESP 481 provides students with the foundational knowledge to establish the context and necessity of local scale climate action by exp
SUST 482	Local-Scale Climate Policy II: Climate Action 3 Credits	ESP 482 is the second course in the Local Climate Action Program. (ESP 481 is a required prerequisite.) ESP 482 challenges students to work collaboratively with their local government partners to create tangible, impactful
SUST 495	Internship 1-6 Credits/Maximum of 6	Supervised off-campus, non-group instruction including individual field experience, practicums, or internships. Written and oral critique of activity required.
SUST 496	Special Topics 1-6 Credits/Maximum of 6	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
SWA 1	Elementary Swahili I 4 Credits	Listening, speaking, reading, writing Swahili: an introduction for beginners; basic structures and vocabulary; cultural elements.
SWA 2	Elementary Swahili II 4 Credits	Listening, speaking, reading, and writing Swahili; structures and vocabulary; cultural elements.
SWA 3	Intermediate Swahili 4 Credits	Further development of listening, speaking, reading, and writing skills in Swahili: structures and vocabulary; cultural elements.
SWA 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SWA 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SWA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SWA 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SWA 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
SWA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SWA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SWA 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SWA 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
SWA 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
SWA 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SWA 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
SWA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
SWA 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
EDAB TEMPH	Temporary Education Abroad Registration 1-18 Credits/Maximum of 18	This course is used to temporarily register students that are studying overseas. Permanent courses will be entered after the student returns.
EDAB TEMPI	Temporary Education Abroad Registration 15 Credits/Maximum of 99	This course is used to temporarily register students that are studying overseas. Permanent courses will be entered after the student returns.
EDAB 199	Temporary Education Abroad Registration 1-18 Credits/Maximum of 99	This course is used to temporarily register students that are studying overseas. Permanent courses will be entered after the student returns.
EDAB 499	Temporary Education Abroad Registration for 1-15 Credits/Maximum of 99	This course is used to temporarily register students that are studying overseas. Permanent courses will be entered after the student returns.
THEA 1S	First-Year Seminar: Theatre Production Practices 1 Credits	An orientation to the School of Theatre production practices, resources, faculty, and practicum. THEA 001S First-Year Seminar: Theatre Production Practices (1)(BA) This course meets the Bachelor of Arts degree requiremen
THEA 80	Pit Orchestra 1-3 Credits/Maximum of 3	Rehearsal and performance of contemporary and historical musical theatre styles, including operetta and light opera. THEA 080 Pit Orchestra (1-3 per semester/maximum of 3) (GA) (BA) This course meets the Bachelor of Ar
THEA 100	The Art of the Theatre 3 Credits	THEA 100 The Art of the Theatre (3) (GA;US;IL) (BA) This course meets the Bachelor of Arts degree requirements. This course is a survey of all aspects of the living art of the theatre. Throughout the semester, the in-class anal
THEA 101N	Performance and Society 3 Credits	Inspired by the evolving field of performance studies, THEA 101: Performance & Society introduces theatre and performance as artistic practice, creative action, a way of knowing, and a record and unfolding of culture. Comb
THEA 102	Fundamentals of Acting 3 Credits	Introduction to the art and craft of acting for non-theatre majors. THEA 102 Fundamentals of Acting teaches the basic principles of Acting and Performance. THEA 102 aims to introduce the student to basic principles of the a
THEA 103	Fundamentals of Directing 3 Credits	Training and experience in basic skills of directing. Designed for non- theatre majors.

THEA 105	Introduction to Theatre 3 Credits	Introduction to Theatre is a general education course intended to introduce the performing arts in all their global complexity. The course will contain elements of world theatre history; however, the focus of the course will be c
THEA 105H	Introduction to Theatre 3 Credits	An introduction and overview of the history, craft, and art of the theatre to foster an informed appreciation of theatrical events. This course is an alternate to THEA 100.
THEA 106	Theatre Foundations 3 Credits	The THEA 106 class is an introductory examination of Theatre and Meaning designed for first-year theatre majors. It is guided by two overarching questions. Why do we (human beings) make theatre? And: how does theatre g
THEA 107	Introduction to Dramatic Structure 3 Credits	An introduction to structural analysis in dramatic literature.
THEA 111	The Fundamentals of Singing and Vocal Production 3 Credits	The origin of singing predates the development of spoken language. Singing is the act of producing musical sounds with the human voice and provides a medium for communication universally across cultures. This course ex
THEA 112	Introduction to Musical Theatre 3 Credits	Beginning with developing an understanding of basic musical theatre terminology, Introduction to Musical Theatre will proceed to examine musical theatre development as it parallels the quixotic historical landscape. The cou
THEA 113	Musical Theatre Theory I 2 Credits	Studies in the fundamentals of music notation and sight-singing. THEA 113 (2) is designed to provide the beginning musical theatre student with the fundamentals of music theory and diatonic harmony as well as the analytic
THEA 114	Music Theatre: Form and Analysis 3 Credits	A survey of music theatre as an art form.
THEA 115	B.F.A. Acting Foundations 2 Credits	Fundamental aspects of training the actor's body, voice, mental focus, and imagination. THEA 115 B.F.A. Acting Foundations (2)THEA 115 is an introduction to the awakening and enhancement of beginning students' physica
THEA 116	Musical Theatre Theory II 2 Credits/Maximum of 4	THEA 116 develops continues music theory for musical theatre majors and augments theory with practical piano skills. THEA 116 is an introduction to the awakening and enhancement of beginning students' physical, vocal,
THEA 120	Acting I 3 Credits	Fundamental skills and training in acting. Emphasis on physical/vocal awareness and the nature of dramatic communication. Theatre majors only.
THEA 121	Fundamentals of Acting II 3 Credits	This course is a continuation of THEA 120 and designed to build upon the basic foundation of acting. THEA 121 Fundamentals of Acting II (3) THEA 121 is a continuation of THEA 120 and designed to build upon the basic fo
THEA 130	Introduction to Theatre Scenic and Costume Technology 3 Credits	Introduction to the methods, materials, equipment, concepts and processes involved in the construction of scenery and costumes for the theatre. THEA 130 Introduction to Theatre Scenic and Costume Technology (3) This c
THEA 131	Introduction to Theatre Sound and Lighting Technology 3 Credits	Introduction to the methods, materials, equipment, facilities, concepts and processes used to create theatre lighting and sound. THEA 131 Introduction to Theatre Sound and Lighting Technology (3) This course will familiariz
THEA 132	Survey of Theatre Production Practice 3 Credits/Maximum of 3	Survey and application of Scenic, Costume, Lighting, and Sound techniques and practices.
THEA 146	Basic Theatrical Makeup 2 Credits	Both straight and corrective makeup, with character and styling techniques for stage, film, and television.
THEA 150	Fundamentals of Design for the Theatre 3 Credits	Exploration of the philosophy and technique of scenic, costume, and lighting design.
THEA 152	Theatrical Design Foundations for the BFA 3 Credits/Maximum of 3	Study and practice of the philosophy, processes, and techniques of the theatrical designer.
THEA 159	Theatre Portfolio & Business Practices I 1 Credits	This course is the first half of our professional preparation arc, intended to train the student of theatre for life as a professional theatre designer or technician. There are many challenges to working in the business of theatre, a
THEA 189	Principles of Stagecraft, A Look Behind the Curtain 1.5 Credits/Maximum of 6	THEA 189 Principles of Stagecraft, A Look Behind the Curtain (1.5 per semester/repeatable up to 4 times) (GA)(BA). For non-theatre major students only, theatre minors are ok. This course meets the Bachelor of Arts degree r
THEA 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
THEA 198	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
THEA 199	Foreign Studies--Theatre Arts 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
THEA 201W	Script Analysis 3 Credits	This course is an introduction to some of the most common tools of script analysis used by designers, performers, stage managers, technicians, dramaturgs, playwrights, and other artists of the theatre. The class proceeds b
THEA 202	Beginning Scene Study 3 Credits	Introduction to the fundamentals of scene study through readings, improvisations, exercises and scene work. THEA 202 Beginning Scene Study (3) A continuation of work started in THEA 102, this course is designed for thea
THEA 206	Critical Theory for Performance 3 Credits	THEA 206 is an intensive introduction to critical performance theory. Through reading, writing, and attendance at arts events, students will learn methods for experiencing, analyzing, and writing about theatre, dance, and othe
THEA 207	Gender and Theatre 3 Credits	A study of theatre and drama literature as formed by issues of gender, race, and ethnic background. THEA 207 Gender and Theatre (3) (GA;US) (BA) This course meets the Bachelor of Arts degree requirements.Theatre 207 p
THEA 208	Workshop: Theatre in Diverse Cultures 3 Credits	A performance-oriented class which explores the historic and contemporary theatrical works of various culturally diverse peoples. THEA 208 / AFAM 208 Theatre Workshop in Diverse Cultures (3) (GA;US;IL) (BA) This course r
THEA 209	Hip Hop Theatre 3 Credits	Hip Hop Theatre defines and explores Hip Hop as an art form. The student will explore Hip Hop culture through Hip Hop Theatre aesthetics: Emceeing, Dejaying, Beat boxing, graffiti art, and dance. Hip Hop Theatre is desig
THEA 211	Dramaturgy 3 Credits	THEA 211 is an introduction to the history, theory, and practice of production dramaturgy. Students will learn to: practice theory-driven and production-oriented play analysis; to write thoughtful dramatic criticism, informed by
THEA 212	Musical Theatre Theory III 2 Credits/Maximum of 2	Intermediate studies in diatonic harmony, analysis, sight-singing and dictation. THEA 212 (2) is designed to provide the intermediate musical theatre student with the mastery of harmonic and melodic analysis with which to ap
THEA 214	Musical Theatre Theory IV 2 Credits/Maximum of 2	Advanced studies in the technique and practice of chromatic harmonic analysis and sight-singing. THEA 214 is designed to provide the advanced musical theatre student with the analytical skills with which to approach and
THEA 220	Acting II 3 Credits	Principles of acting through improvisation, exercises, and character analysis, with emphasis on basic skills of voice and movement. For theatre majors only.
THEA 222	Acting Laboratory 2 Credits	Laboratory experience in student-directed scenes and/or one-act plays.
THEA 223	Musical Theatre Performance I 2 Credits	Studio training in the unique performance skills, repertoire and business of professional music theatre. THEA 223 Musical Theatre Performance I (2) (BA) This course meets the Bachelor of Arts degree requirements.The purpo
THEA 224	Musical Theatre Performance II 2 Credits	Studio training in the unique performance skills, repertoire and business of professional music theatre. THEA 224 Musical Theatre Performance II (2) (BA) This course meets the Bachelor of Arts degree requirements.This cour
THEA 225A	B.F.A. Acting Studio I 2 Credits	Exercises to develop truthful listening and responding as a foundation for acting studio scene study. Listening and responding in an unadorned, truthful way is the lynch-pin of the actors's work. In THEA 225A, students will b
THEA 225B	B.F.A. Movement Studio I 2 Credits	Introduction to techniques to condition the actor and improve physical awareness and self-use. Listening and responding in an unadorned, truthful way is the lynch-pin of the actors's work. In THEA 225A, students will begin
THEA 225C	B.F.A. Voice/Speech Studio I 2 Credits	Introduction to actor voice and speech training. THEA 225C is the first in a sequence of voice and speech courses for the actor. This first semester installment will focus on awareness and conditioning activities related to bre
THEA 250	Introduction to Scene Design 3 Credits	Introduction to the history, processes, materials, and concepts involved in designing scenery for the theatre. THEA 250 Introduction to Scene Design (3) This course is the introductory course to the art and practice of designi
THEA 251	Theatre Drafting Techniques 2 Credits	Introduction to drafting of floor plans, section drawings, construction graphics, and mechanical perspective for the theatre. THEA 251 Theatre Drafting Techniques (1) (BA) This course meets the Bachelor of Arts degree requi
THEA 252	Design Presentation Techniques 1 Credits	Media and materials exploration; sketching, rendering, and modeling methods.
THEA 253	Scene Painting 1 Credits	Introduction to painting scenery for the theatre; methods and materials.
THEA 260	Introduction to Costume Design 3 Credits	Introduction to costume design process through character analysis and the use of color, line, and texture. THEA 260 Introduction to Costume Design (3) (BA) This course meets the Bachelor of Arts degree requirements.THE

THEA 261	Introduction to Costume Construction Techniques 3 Credits	Intermediate study of the methods, materials, equipment, concepts and processes involved in the construction of costumes for the theatre. THEA 261 Introduction to Costume Construction Techniques (3) This course will ad
THEA 270	Introduction to Lighting Design 3 Credits	THEA 270 Introduction to Lighting Design (3) will focus on helping each student to develop a design process that takes them from script to stage. Students will study each step of the lighting design process and use these ste
THEA 280	Introduction to Technical Direction for the Theatre 3 Credits	Introduction to the methods, materials, equipment, facilities, concepts and processes associated with Technical Direction for the Theatre. THEA 280 Introduction to Technical Direction for the Theatre (3) This course will famili
THEA 282	Production Practicum 3-6 Credits/Maximum of 6	This course provides students with first-hand experience working on a theatrical production at the university. Students will learn the responsibilities and processes of preparing for a live theatre production by either performing
THEA 285	Introduction to Sound Design 3 Credits	An introduction to sound design for the theatre. THEA 285 Introduction to Sound Design (3)The purpose of this course is to provide an overview of the techniques and the tools of sound design and the sound designer's role
THEA 289	Theatre Production Practicum 1 Credits/Maximum of 3	Supervised experience in production techniques. THEA 289 Theatre Production Practicum (1 per semester/maximum of 3) (BA) This course meets the Bachelor of Arts degree requirements.The course is designed to provide
THEA 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, supervised on an individual basis and which fall outside the scope of formal courses.
THEA 296H	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, supervised on an individual basis and which fall outside the scope of formal courses.
THEA 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a subject which may be topical or of special interest.
THEA 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
THEA 298	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
THEA 299	Foreign Studies--Theatre Arts 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
THEA 322	Voice and Speech I 2 Credits	Vocal techniques for the actor: articulation, voice control, support, and projection. In this class students will be working in three areas: practical voice and speech work to include relaxation, body alignment, breath, resonanc
THEA 323	Voice and Text 3 Credits	This course focuses on building the vocal and analytical skills required to embody challenging text and communicate it clearly. Building on the foundation of the previous BFA voice courses, students learn to strategically utili
THEA 324	Movement for Actors I 2 Credits	Techniques and skills in physical expression, awareness, control, and stage movement.
THEA 325	Movement for Actors II 2 Credits	Continuation of THEA 324.
THEA 326	Music Theatre Performance Workshop 1 Credits/Maximum of 3	Performance studies in cabaret, revue, and club environments.
THEA 327	Musical Theatre Auditions 2 Credits	Research and preparation of auditions for work in professional musical theatre venues. THEA 327 Musical Theatre Auditions (2) (BA) This course meets the Bachelor of Arts degree requirements.Theatre 327 offers junior and
THEA 399	Foreign Studies--Theatre Arts 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individuals or group instruction.
THEA 400	Advanced Theatre Projects 1-6 Credits/Maximum of 99	Individual and group-directed study of in-depth projects involving reading, discussion, performance, and critical analysis by faculty.
THEA 401	Theatre History I: Ancient to 1700 3 Credits	Survey of drama and theatre from primitive rites through the Renaissance.
THEA 401H	Theatre History I 3 Credits	Survey of drama and theatre from primitive rites through the Renaissance.
THEA 402	Theatre History II: From 1700 to Present 3 Credits	Survey of European drama and theatre from the eighteenth century through the modern period. THEA 402 Theatre History II: From 1700 to Present (3) A survey of drama and theatre from the seventeenth century through the
THEA 403	20th Century Theatre History 3 Credits	This course begins in the mid-twentieth century following the theatrical experimentation and socio- political changes that influenced Modernism's Avant-Garde movement, Bertolt Brecht and Erwin Piscator's Epic Theatre, an
THEA 404	Twenty-first Century Theatre and Drama 3 Credits	This course focuses on twenty-first century theatre and drama, exploring select dramatic literature, artists, and theatre companies within the framework of the social, cultural, and political changes that have occurred since th
THEA 405W	Theatre History: American Theatre 3 Credits/Maximum of 3	Survey of American drama and theatre from the colonial period to the present. THEA 405 Theatre History - American Theatre is a course that introduces students to the rich history of American theatre from the colonial era to
THEA 407W	Women and Theatre 3 Credits	A study of theatre practice and dramatic literature as informed by issues of gender, race, and ethnic background. THEA (WMNST) 407 Women and Theatre (3) (US)(BA) This course meets the Bachelor of Arts degree requirem
THEA 408W	History of American Musical Theatre 3 Credits	A survey of the history of American musical theatre presented in a social, cultural, and aesthetic prospective.
THEA 410	Play Analysis 3 Credits	Advanced skills in textual analysis of plays and screenplays.
THEA 411	Dramaturgy Practicum 1-3 Credits/Maximum of 12	Dramaturgy Practicum is a variable credit course (1-3) that trains theatre students in the practices of dramaturgy for production. Students may be paired with a particular School of Theatre production or project as an in-rehea
THEA 412	African American Theatre 3 Credits	Exploration of the development of African American theatre from its roots in Africa through the diaspora, to the present time. THEA 412 / AFAM 412 African American Theatre (3) (US;IL) (BA) This course meets the Bachelor of
THEA 419	Musical Theatre: Business of the Business 3 Credits	This course is lecture and discussion based and designed to address the needs of students preparing to enter the professional musical theatre. Topics will include the techniques and skills of networking, unions, casting direc
THEA 420	Scene Study I 3 Credits/Maximum of 9	Advanced monologue and scene study techniques. Principal focus on realism. THEA 420 Advanced Scene Study is a course in which students are allowed to explore and deepen their understanding of the art and craft of ac
THEA 421	Advanced Acting: Physical Approaches 3 Credits	This course builds on the physical approach to character and story creation explored in THEA 420, and aims to equip the student with a working knowledge informed by direct experience and application of physical approac
THEA 422	Advanced Scene Study 3 Credits	This course introduces the actor to the skills necessary for successful auditions and performances in television, film, digital media and other commercial venues.
THEA 423	Musical Theatre Performance III 2 Credits	Studio training in the unique performance skills, repertoire and business of professional musical theatre. THEA 423 Musical Theatre Performance III (2) (BA) This course meets the Bachelor of Arts degree requirements.In dept
THEA 424	Musical Theatre Performance IV 2 Credits	Studio training in the unique performance skills, repertoire and business of professional musical theatre. THEA 424 Musical Theatre Performance IV (2) (BA) This course meets the Bachelor of Arts degree requirements.This st
THEA 425A	B.F.A. Acting Studio II 2 Credits	Scene Study THEA 425A B.F.A. Acting Studio II (2)THEA 425A is a laboratory or practicum course requiring active student presentation of work in progress for critiques by the instructor and input from peers. Working in pairs
THEA 425C	B.F.A. Voice/Speech Studio II 2 Credits	Advanced voice and speech training for BFA Musical Theatre students. THEA 425C B.F.A. Voice/Speech Studio II (2)In THEA 425C, B.F.A. Musical Theatre students will continue to develop and expand their vocal instrument.
THEA 427A	B.F.A. Acting Studio III 2 Credits	Continuation of THEA 425A THEA 427A B.F.A. Acting Studio III (2)THEA 427A is an extension of THEA 425A, a laboratory or practicum course requiring active student presentation of work in progress for critiques by the instru
THEA 427C	B.F.A. Voice/Speech Studio III 2 Credits	Stage Dialect Studies THEA 427C B.F.A. Voice/Speech Studio IV (2)THEA 427C focuses on the acquisition of stage dialects and accents. For each dialect the student becomes aware of the resonance, phonetic, inflection, ar
THEA 428	Musical Theatre Performance Studio V 2 Credits/Maximum of 4	Students will prepare and present workshop reading of a new musical theatre piece
THEA 429	Theatre Performance Practicum 1-3 Credits/Maximum of 99	Supervised experience in rehearsal and performance of significant roles.
THEA 434	Introduction to Directing 3 Credits	Introduction to principles and procedures of play direction.
THEA 436	Directorial Processes 3 Credits	Preparing a play for production including the scoring of thescript, developing ground plan, casting, and staging projects in American realism.
THEA 437	Artistic Staff for Production 1-6 Credits/Maximum of 6	To provide students with experience in choreography, dramaturgy, combat, staging, voice/speech, musical direction, assisting in direction, for major productions.
THEA 440	Principles of Playwriting 3 Credits/Maximum of 6	Structure, dramatic effect, characterization, and dialogue; the writing, reading, and criticism of original one-act plays. THEA 440 Principles of Playwriting (3 per semester/maximum of 6)(BA) This course meets the Bachelor of
THEA 448	Theatre Management 3 Credits	Want to work in Theatre, but you don't want to act or work backstage? There are countless roles "behind the scenes" that are pivotal to the creation and success of theatrical productions. This course offers hybrid studies foc
THEA 450	Advanced Topics in Scene Design 3 Credits/Maximum of 6	Design emphasis on a variety of production techniques, genre, and styles. THEA 450 Advanced Topics in Scene Design (3 per semester/maximum of 6)(BA) This course meets the Bachelor of Arts degree requirements. This c
THEA 451	Drafting, Drawing, and Painting for the Theatre 1 Credits	Drafting, freehand drawing including perspective methods and property development, rendering techniques, and painters' elevations.
THEA 452	CAD Drafting for Theatre and other Entertainment Applications 3 Credits	CAD Drafting for theatre is an Advanced level course that focuses on the technical aspects of drafting. Students will become well versed in the use of CAD drafting programs such as AutoCAD. Students will learn all of the es
THEA 453	Advanced Scene Painting 1-3 Credits/Maximum of 12	Practicum study in painting techniques currently in professional use. Exploration of tools, available paints, and texturing materials.
THEA 454	Period Research for the Theatre 3 Credits	History of decor, styles, and movements in art and architecture.
THEA 455	Imagination & Collaboration 3 Credits/Maximum of 3	This course will create an environment in which students can learn about, and build strategies for, their involvement in creative collaborations. They will examine their own individual characteristics, what they know and what t
THEA 459	Theatre Portfolio & Business Practices II 1 Credits	THEA 459 Theatre Portfolio & Business Practices II (1) This course is designed to prepare the student of design for life as a professional theatre designer. There are many challenges to working in the business of design, arisin
THEA 460	Advanced Topics in Costume Design 3 Credits/Maximum of 6	Developing and executing a design concept in a variety of the performing arts. THEA 460 Advanced Topics in Costume Design (3 per semester/maximum of 6) (BA) This course meets the Bachelor of Arts degree requirement

THEA 461	Advanced Topics in Costume Construction and Technology 3 Credits/Maximum of 6	A specialized course in advanced costume construction techniques and theatrical costume technologies. THEA 461 Advanced Topics in Costume Construction and Technology (3 per semester/maximum of 6) (BA) This cours
THEA 464	History of Fashion 3 Credits	Survey of dress from Egyptian period to contemporary fashion.
THEA 465	History of Fashion II 3 Credits	Survey of dress from 1800 to contemporary fashion. THEA 465 History of Fashion II (3)(BA) This course meets the Bachelor of Arts degree requirements.The course is the second part of the history of fashion that is an electiv
THEA 470	Advanced Topics in Lighting Design 3 Credits/Maximum of 9	Advanced Topics in Lighting Design will rotate through opera, dance, non-traditional spaces, architecture, advanced technology, and color theory. THEA 470 Advanced Topics in Lighting Design (3 per semester/maximum of
THEA 472	Lighting Technology 3 Credits	An introduction to the basics of electricity, dimmer protocols, lightboard programming, lighting paperwork, and master electrician & assistant lighting design practices. THEA 472 Lighting Technology (3)THEA 472 is an introd
THEA 474	Theatre Design History I 3 Credits	This course is the first half of a two-semester arc, intended to provide students with a fundamental understanding of the history of theatre design & technology. Beginning with the Greeks and continuing through to modern da
THEA 475	Theatre Design History II 3 Credits	This course is the second half of a two-semester arc, intended to provide students with a fundamental understanding of the history of theatre design & technology. Beginning with the Greeks and continuing through to moder
THEA 476	Lighting Technology for Production 1 Credits/Maximum of 6	THEA 476 is a 1-credit course fulfilling, in part, the requirements of the Theatre BFA Design & Technology Major. Students who are assigned to School of Theatre productions in the Lighting area as an Assistant Master Electri
THEA 477	Lighting Design for Production 1 Credits/Maximum of 6	Design and execution of design projects.
THEA 480	Advanced Topics in Technical Direction for the Theatre 3 Credits/Maximum of 6	Advanced study of the methods, materials, equipment, facilities, concepts and processes associated with Technical Direction for the Theatre. THEA 480 Advanced Topics in Technical Direction for the Theatre (3 per semeste
THEA 480B	Technical Production IV 3 Credits	Discussion of problems of the technical director: personnel management, time management, scheduling, budgeting, purchasing, and the technical drawing of production.
THEA 481	Stage and Production Management 3 Credits	Production planning, scheduling, assignment of personnel, rehearsal procedures, and budgeting.
THEA 482	Technical Production - Rigging 3 Credits	In-depth exploration of current rigging techniques used in entertainment.
THEA 484	Sound Recording Techniques 3 Credits	Multi-track audio recording and post production techniques. THEA 484 Sound Recording Techniques (3)THEA 484 will provide fundamental skills in recording an audio production. The first four weeks will cover basics of cur
THEA 485	Sound for Theatre Production 3 Credits/Maximum of 6	Aesthetics of live and recorded sound; recording and editing techniques for the stage.
THEA 486	Stage Management for Production 1-9 Credits/Maximum of 9	Stage manager for University Theatre production.
THEA 489	Theatre Production Practicum 1 Credits/Maximum of 99	Supervised experience in production techniques. For theatre majors only.
THEA 490	London Study Tour 3 Credits	An intensive academic and cultural experience in the theatre capital of the English-speaking world. THEA 490H London Study Tour (3) Theatre-going forms the heart of the LST and of its academic identity. London is the outs
THEA 494	Research Projects - Honors 1-12 Credits/Maximum of 12	Supervised student activites on research projects identified on an individual or small-group basis.
THEA 495	Internship Practicum 1-6 Credits/Maximum of 12	Professional field experience in theatre performance, production, and management assignments.
THEA 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, supervised on an individual basis and which fall outside the scope of formal courses.
THEA 496H	Independent Studies - Honors 1-18 Credits/Maximum of 18	Creative projects, including research and design, supervised on an individual basis and which fall outside the scope of formal courses.
THEA 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
THEA 498	Special Topics 1-9 Credits	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
THEA 499	Foreign Studies--Theatre Arts 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
TURF 100	Introduction to Turfgrass Management 3 Credits	Introduction to turfgrass species, establishment, maintenance, and pest control of turfgrass species used for sports, lawn/utility turf, and golf courses. TURF 100 Introduction to Turfgrass Management (3) TURF 100 is an intr
TURF 230	Turfgrass Pesticides 1 Credits	Course covers chemical toxicity, formulations, environmental fate, labels, MSDS, calibration, IPM, safety, handling, storage, and Pennsylvania certification and regulations.
TURF 235	The Turfgrass 3 Credits	Characterization of the primary plant species used for sports, lawn and utility turf; includes turfgrass morphology, environmental adaptation, and cultural requirements.
TURF 238	Turf and Ornamental Weed Control 3 Credits	Students will be introduced to the development of integrated weed management strategies utilizing a variety of cultural and chemical methods.
TURF 295	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practical, or internships. Written and oral critique of activity required.
TURF 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
TURF 307	Golf Course Irrigation and Drainage 3 Credits	TURF 307 is a course developed to instruct students interested in working in the turfgrass management profession. The majority of the course is devoted to irrigation topics with a strong concentration on turfgrass irrigation a
TURF 425	Turfgrass Cultural Systems 3 Credits	TURF 425 will prepare students for the practical application of agronomic principles and concepts in the green industry. Students will develop management and problem solving skills. The course will be a platform for student
TURF 434	Turfgrass Edaphology 3 Credits	TURF 434 Turfgrass Edaphology (3) TURF 434 is offered to students that are entering their final year of the turfgrass science major. This course builds on introductory turfgrass and soil courses. In this course you will learn to
TURF 435	Turfgrass Nutrition 4 Credits	Turfgrass Nutrition is a study in the nutrition and growth of turfgrass plants. Upon completion of this course, students will be able to distinguish the function and requirements of nutrients in the turfgrasses; describe how soil p
TURF 436W	Case Studies in Turfgrass Management 3 Credits	Case Studies in Turfgrass Management is a three credit, writing intensive course for students in the final year of the Turfgrass Science major. The goal of this capstone course is to provide students with an understanding of p
TURF 490	Colloquium 1 Credits	Oral presentations developed by students in consultation with the course instructor.
TURF 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practical, or internships. Written and oral critique of activity required.
TURF 495A	Internship 1 Credits/Maximum of 3	Preparation for or follow up to supervised off-campus, nongroup instruction including field experiences, practical, or internships. Written and oral critique of activity required.
TURF 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
TURF 497	Special Topics 2-6 Credits/Maximum of 6	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
TURF 499	Foreign Studies 1-8 Credits	Courses offered in foreign countries by individual or group instruction.
TURF 499B	Foreign Studies 1-8 Credits	Courses offered in foreign countries by individual or group instruction.
UKR 1	Elementary Ukrainian I 4 Credits	Reading, writing, and speaking Ukrainian.
UKR 2	Elementary Ukrainian II 4 Credits	Reading, writing, and speaking Ukrainian.
UKR 3	Intermediate Ukrainian 4 Credits	Reading, writing, and speaking Ukrainian.
UKR 99	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
UKR 100	Ukrainian Culture and Civilization 3 Credits	Survey of Ukrainian culture and civilization from the Middle Ages to the present. UKR 100 Ukrainian Culture and Civilization (3) (GH;IL)The course acquaints students with Ukrainian culture from the origins of Kyivan-Rus in th
UKR 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
UKR 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
UKR 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
UKR 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
UKR 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
UKR 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small group basis.
UKR 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
VBSC 50	Mechanisms of Disease 3 Credits	Introduction to the study of disease pathogenesis and careers in Animal Health Research and Service. VB SC 050S Mechanisms of Disease (3)Mechanisms of Disease is a first year seminar directed to students with an intere
VBSC 97	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
VBSC 101	Careers in Veterinary Medicine and the Allied Professions 1 Credits	Exploring career pathways in veterinary medicine and the allied health industry. VB SC 101 Careers in Veterinary Medicine and the Allied Professions (1) The course is intended for first year students with an interest in careers

VBSC 130	Understanding Human Disease 3 Credits	All humans are impacted by disease, either personally or through friends or family members who are affected. Understanding Human Disease is an overview of disease processes for individuals not majoring in a scientific fiel
VBSC 190	Careers in Veterinary and Biomedical Sciences 1 Credits	Career strategic planning and opportunities for Veterinary and Biomedical Sciences.
VBSC 211	The Immune System and Disease 3 Credits	Introduction to the immune system that emphasizes the immune response to infection and consequences of a defective immune response.
VBSC 230	The Science of Poisons 3 Credits	An introduction to toxicology using real world examples to highlight the impact of toxicants on environmental, biochemical and physiological processes. VB SC 230 The Science of Poisons (3) Toxicology is the study of poiso
VBSC 280N	Current Topics in Veterinary Medicine 3 Credits	Discussion of the social, ethical, and economic aspects of current and emerging issues related to animal ownership and veterinary medicine emphasizing the appropriate citation of sources and writing about contemporary is
VBSC 290	Undergraduate Research Colloquium 1 Credits	Presentations by appropriate faculty on research opportunities for undergraduates. VB SC 290H Undergraduate Research Colloquium (1) The goal of the course is for students to acquire the skills necessary to obtain an inde
VBSC 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
VBSC 331	Pharmacology I: Drug Actions and Reactions 3 Credits	This course teaches the general principles of pharmacology and mechanisms of drug action. The objectives of this course include: Explain fundamental principles of drug action, including how drugs affect the body and how
VBSC 340	Introduction to Human and Veterinary Public Health 3 Credits	This course introduces students to the history of human and veterinary public health, the structure of the human and veterinary public health system (CDC, FDA, and USDA) and the various sectors of veterinary and human pu
VBSC 395	Internship 1-10 Credits/Maximum of 10	Independent study and supervised field experience related to the student's professional interest. Limited to students in animal agriculture majors.
VBSC 402W	Biology of Animal Parasites 3 Credits/Maximum of 3	An introduction to animal parasitology. Emphasis placed on host/parasite interactions, parasites of zoonotic importance, control programs and taxonomy. VB SC 402W Biology of Animal Parasites (3) This course provides stu
VBSC 403	Principles of Animal Disease Control 3 Credits	Principles of disease control based on knowledge of the multiple causes of animal disease.
VBSC 403H	Principles of Animal Disease Control 3 Credits	Principles of disease control based on knowledge of the epidemiology of animal disease. VB SC 403H Principles of Animal Disease Control (3) Animal Health and well being has emerged as a clear concern of society. The ge
VBSC 405	Laboratory Animal Science 3 Credits	Principles involved in maintaining laboratory animals. Emphasis is on management, preventive medicine, and surgical considerations used in laboratory animal colonies. VB SC 405 Laboratory Animal Science (3)This course i
VBSC 407	Ruminant Herd Health Management 3 Credits	The course will provide students with basic and foundational knowledge regarding herd health programs in ruminant production systems. The student will explore crucial areas of managing production systems such as impler
VBSC 409	Wildlife Diseases 3 Credits	The purpose of this course is to provide students with an appreciation of the changing role of wildlife diseases as they relate to wild vertebrate species. The student will learn disease terminology and mechanisms, wildlife dis
VBSC 410	Principles of Immunology 3 Credits	The MICRB 410 / VBSC 410 Theories of immunity (3cr.) course provides a basic foundation in immunology with a focus on the progression from antigen recognition and innate immune responses to the development of acqui
VBSC 415	Research Practice in Veterinary and Biomedical Sciences 2 Credits	Research Practice in VBSC provides practical training in laboratory research, which is integrated with formal training in responsible conduct of research, experimental design and data analysis and in-depth discussion of key
VBSC 418	Bacterial Pathogenesis 2 Credits	Study of molecular interactions between bacterial pathogens and their hosts.
VBSC 420	General Animal Pathology 3 Credits	This is a lecture-based course that will incorporate pictures and photomicrographs of gross and histologic lesions. This course primarily emphasizes the fundamental mechanisms of disease at the molecular, cellular, and tiss
VBSC 421	Comparative Anatomy of Vertebrates 4 Credits	BIOL 421 / VBSC 421 Comparative Anatomy of Vertebrates Students will study vertebrate anatomy from an evolutionary and developmental perspective. They will become familiar with important structures, terminology and f
VBSC 423W	Pathology of Nutritional and Metabolic Diseases 3 Credits	Overview of nutritional and metabolic diseases of animals integrating concepts from biochemical and physiologic abberrations to clinical applications. VB SC 423W Pathology of Nutritional and Metabolic Diseases (3)Nutritio
VBSC 425	Principles of Avian Diseases 3 Credits	Principles of pathogenesis and control of diseases in poultry and other avian populations. Case material used where appropriate. ANSC 425 / VBSC 425 Principles of Avian Diseases (3) This course discusses the major dise
VBSC 430	Principles of Toxicology 3 Credits	Introduction to the biomedical aspects of toxicology with emphasis on the mechanisms and fate of chemical interaction with biological systems.
VBSC 431	Environmental Toxicology 3 Credits	Effects of pollutants on animal health at the chemical, physical, and cellular level.
VBSC 432	Advanced Immunology: Signaling in the Immune System 3 Credits	The study of signaling pathways that regulate the immune response. BMB 432 / MICRB 432 / VBSC 432 Advanced Immunology: Signaling in the Immune System (3)This course will use the immune system as a model in whic
VBSC 433	Molecular and Cellular Toxicology 3 Credits	In-depth coverage of processes by which drugs/chemicals interact with biological systems and the experimental approaches used to study these interactions.
VBSC 435	Viral Pathogensis 3 Credits	Viral Pathogenesis provides students with a general knowledge of medically relevant viruses, with a specific focus on important human viral pathogens. The course is meant to help students understand how viruses cause dis
VBSC 438	Introduction to Molecular Pharmacology 3 Credits	Upon completion of this course the student will be able to correlate their knowledge of basic and organic chemistry, biochemistry and physiology to the understanding of drug actions. The molecular interactions between dru
VBSC 444	Epidemiology of Infectious Diseases 3 Credits	Overall, the emphasis of this course will be on the core epidemiologic concepts of infectious diseases. Epidemiology is the study of how health and diseases are distributed in populations and the factors that influence or det
VBSC 445	Molecular Epidemiology of Infectious Diseases 3 Credits	A discussion and practicum of the molecular laboratory techniques used to study molecular epidemiology of infectious diseases.
VBSC 448W	Current Topics in Immunology 3 Credits	Study of current approaches and questions driving research in immunology and infectious diseases.
VBSC 450	Medical Entomology 3 Credits/Maximum of 3	Transmission of human and animal pathogens by insects, mites and ticks, including emergent pathogens, envenomization, and forensic entomology. This course presents principles of transmission of human and animal path
VBSC 451	Immunotoxicology of Drugs and Chemicals 3 Credits	An in depth discussion of the effect of xenobiotics and drugs on host immune mechanisms. VB SC 451 Immunotoxicology of Drugs and Chemicals (3) Maintaining good health is a priority for most of us, and a key element in
VBSC 455	One Health 3 Credits	This course addresses the challenges and opportunities at the convergence of One Health/public health, animal health, and environmental/ecosystem health. This interdisciplinary course will introduce the concept of One He
VBSC 456	Case Studies in Global One Health 3 Credits	The lectures will cover a variety of topics ranging from measures of health and disease in populations through events occurring in globalization of health. Students will do class presentations of case studies based on evidenc
VBSC 485	Human Genomics and Biomedical Informatics 3 Credits	The purpose of this course is to introduce students to the field of Human Genomics and Biomedical Informatics, in particular in the context of genetic architecture of complex human diseases and traits. The field of Human G
VBSC 494	Honors Thesis 1-6 Credits/Maximum of 6	Independent study directed by a faculty supervisor that culminates in the production of a Veterinary and Biomedical Sciences honors thesis.
VBSC 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
VBSC 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.
VBSC 499	Foreign Studies 0.5-4 Credits/Maximum of 10	Courses offered in foreign countries by individual or group instruction.
WILDL 101	Introduction to Wildlife Management 3 Credits	Basic principles of wildlife management. Introduction to general ecology and wildlife population dynamics.
WILDL 103	Animal Identification 4 Credits/Maximum of 4	Identification of mammals, birds, reptiles, and amphibians; introduction to their life histories.
WILDL 106	Wildlife Management Techniques 4 Credits	This course is an overview of laboratory and field techniques for wildlife and natural resource research and management. The first third of the course prepares students to become proficient in land navigation by emphasizing
WILDL 106T	Wildlife Management Techniques (Honors) 4 Credits	This course is an overview of laboratory and field techniques for wildlife and natural resource research and management. The first third of the course prepares students to become proficient in land navigation by emphasizing
WILDL 207	Outdoor Recreation 3 Credits	Sociology, history, and economics of recreational demand; recreational areas and management procedures.
WILDL 208M	Terrestrial Wildlife Management (Honors) 3 Credits	Ecological characteristics and manipulation of terrestrial habitats; control of wildlife populations. This course provides an overview of ecological characteristics of terrestrial habitats and the influence of those characteristics o
WILDL 208W	Terrestrial Wildlife Management 3 Credits	This course provides an overview of ecological characteristics of terrestrial habitats and the influence of those characteristics on wildlife populations. Course goals include (1) acquisition of knowledge related to how wildlife (
WILDL 211	GIS and Aerial Photo Interpretation in Wildlife Management 4 Credits/Maximum of 4	Use of Geographic Information Systems and aerial photo technology with applications in wildlife management and natural resources.
WILDL 213	Wetlands and Fisheries Management 4 Credits	Introduction to basic limnology. Ecology and management of swamp, marsh, pond, and stream habitats and their animal populations.
WILDL 231	Hawk Identification 1 Credits	Identification of hawks in flight. Occurs during fall hawk migration and covers species frequently observed in Pennsylvania. Includes a weekend trip to a hawk watch.
WILDL 294	Undergraduate Research in Wildlife 1 Credits/Maximum of 2	In Undergraduate Research in Wildlife, students will be introduced to all aspects of wildlife research including study design, writing a research proposal, collection of data in the field, data entry, data analyses and statistical m
WILDL 295	Internship in Wildlife Technology 1-6 Credits/Maximum of 6	Supervised off-campus field experience related to student's major.
WILDL 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WILDL 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

WFS 150S	First-Year Seminar 2 Credits	The objectives of this first-year seminar course are to: (1) Engage and prepare first-year college students for academic success by orienting them to the scholarly community and introducing them to available academic resou
WFS 209N	Wildlife and Fisheries Conservation 3 Credits	The conservation and management of our natural resources is critical to all aspects of human existence. Wildlife and fishery resources are integral to our food supplies, the quality of our lands, and form a deep foundation of
WFS 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, that are supervised on an individual basis and that fall outside the scope of formal courses.
WFS 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFS 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WFS 300	The Vertebrates 2 Credits	Overview of the evolution, systematics, ecology, and behavior of the subphylum vertebrata. W F S 300 The Vertebrates (2) The purpose of this course is to introduce students to vertebrate zoology and will include overviews
WFS 301	Vertebrate Laboratory 2 Credits	W F S 301 Vertebrate Laboratory (2) The purpose of this course is to introduce students to the anatomy of the vertebrates and to expose students to the diversity of vertebrates that reside in Pennsylvania. Students will disse
WFS 310	Wildlife and Fisheries Measurements 3 Credits	Wildlife and Fisheries Measurements will introduce students to basic measurements used to describe fish and wildlife populations and their habitats. Laboratory exercises will stress sampling approaches and implementation
WFS 340	Statistics for Conservation of Wild Populations 3 Credits	Statistics for Conservation of Wild Populations provides an overview of the statistical techniques used by wildlife and fisheries biologists to research wild animal populations and guide management and conservation. Wildlife
WFS 406	Ornithology Laboratory 2 Credits	W F S 406 Ornithology Laboratory (2) Ornithology Laboratory establishes the basic skills for identifying bird species in the field. This laboratory and field course is open to students with some background in wildlife and shoul
WFS 407	Ornithology 3 Credits	Introduction to the biology, ecology, adaptations, and conservation of birds.
WFS 408	Mammalogy 3 Credits	IDENTIFICATION, SYSTEMATICS, CHARACTERISTICS, ADAPTATIONS, ECOLOGY, BEHAVIOR, NATURAL HISTORY AND CONSERVATION, AND SOCIO-ECONOMIC ASPECTS OF MAMMALS.
WFS 409	Mammalogy Laboratory 2 Credits	W F S 409 Mammalogy Laboratory (2) Mammalogy Laboratory provides the necessary skills for identifying North American mammals. Taken concurrently with or after completing the mammalogy lecture course, this laborator
WFS 410	General Fishery Science 3 Credits	Introduction to the study, management, and uses of fish populations; methods of investigation, culture, and harvest of fishes.
WFS 422	Ecology of Fishes 3 Credits	Role of fishes in aquatic communities and general ecosystems. Environmental factors influencing fish as individuals, populations, and communities.
WFS 425	Aquatic Invertebrate Ecology 3 Credits	This course is designed to provide students with an understanding of the life histories, ecology and importance of macroinvertebrates in freshwater aquatic ecosystems. Special attention will be given to taxonomy and divers
WFS 430	Conservation Biology 3 Credits	The application of biological principles to issues in the conservation of biodiversity. FOR (W F S) 430 Conservation Biology (3) This course applies basic principles of ecology and genetics to issues regarding the conservatio
WFS 431	Conservation Genetics 3 Credits	This course will provide a comprehensive overview of evolution and conservation genetics, an interdisciplinary science that focuses on understanding the processes that influence genetic diversity at the individual and popula
WFS 435	Limnology 3 Credits	Biogeochemistry and natural history of freshwater ecosystems. W F S (E R M) 435 Limnology (3)This course will define and describe major principles (physical, chemical, biological, and ecological) that govern the structure a
WFS 446	Wildlife and Fisheries Population Dynamics 3 Credits	Wildlife and Fisheries Population Dynamics focuses on the concepts and tools needed to make predictions about how populations of fish and wildlife respond to changes in their environment, external stressors, and manage
WFS 447W	Wildlife Management 3 Credits	Management of renewable wildlife resources by applying ecological concepts, habitat evaluation, and decision-making; writing and editing reports are emphasized.
WFS 450	Wetland Science and Sustainability 3 Credits	Wetlands are unique ecosystems, differing in many ways from both terrestrial and aquatic environments. The study of wetlands is interdisciplinary, requiring background knowledge in science, management and policy discipli
WFS 452	Ichthyology 2 Credits	Ichthyology is the study of fishes, the largest and most diverse group of vertebrate animals. This course covers a wide range of topics including systematics, classification, morphology, physiology, behavior, and ecology of fis
WFS 453	Ichthyology Laboratory 2 Credits	Ichthyology Laboratory establishes the basic skills for identifying freshwater fish with a focus on the fishes of Pennsylvania. Students use laboratory specimens, field guides, and dichotomous keys to define and recognize an
WFS 454	Field Ichthyology 2 Credits	Field Ichthyology is designed familiarize students with collection, observation, and field identification of Pennsylvania's fish fauna. Students will get hands-on instruction on how to collect, preserve, catalog, curate, and obser
WFS 460	Wildlife Behavior 3 Credits	Scholarly discussion and critique of history, concepts, and application of wildlife behavioral concepts to conservation issues. The course will give an in-depth coverage of concepts related to an understanding of wildlife beha
WFS 461	Animal Welfare: Science and Ethics 3 Credits	Understanding animal welfare and well-being in farmed, wild and captive animals, and the implications for policy, legislation and conservation. Whether we interact with farmed animals, wild animals in natural settings, or cap
WFS 462	Amphibians and Reptiles 3 Credits	This course explores the evolution, ecology, and conservation of amphibians and reptiles. This course is open to all students with some background in biology. The objectives of this course are for students to 1) describe the
WFS 463W	Fishery Management 3 Credits	Management of sport and commercial fisheries, including biological, political, social, and economic factors; regulations and other management techniques. W F S 463W Fishery Management (3) This course will introduce stu
WFS 465	Restoration Ecology 4 Credits	Restoration ecology is a discipline that integrates principles from ecology, engineering, landscape architecture, economics and other select social sciences to repair ecosystems that have been degraded, damaged, or destro
WFS 489	Supervised Experience in College Teaching 1-3 Credits/Maximum of 3	The Supervised Experience in College Teaching course provides select undergraduate students with formal, supervised teaching experience in a Wildlife and Fisheries Science course. Faculty recruit students who excel in a
WFS 494	Undergraduate Research 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small group basis.
WFS 494H	Undergraduate Research 1-12 Credits/Maximum of 999	Supervised student activities on research projects identified on an individual or small group basis
WFS 495	Wildlife/Fisheries Internship 1-6 Credits/Maximum of 6	Supervised field experience related to the student's major.
WFS 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WFS 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFS 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WGSS 432W	Gender and Sexuality in the Bible 3 Credits	This writing intensive course will examine issues of gender and sexuality in the Bible, including the Hebrew Bible/Old Testament, the Deuterocanon, and the New Testament. It will introduce students to a variety of academic
WMNST 1	Introduction to Women's Studies 3 Credits	Interdisciplinary consideration of the scholarly theories and research pertaining to women's experiences and women's status in contemporary American society.
WMNST 8	Gender Matters 3 Credits	Feminism is one approach to addressing systematic oppressions of both women and men. This course examines various feminist philosophical approaches to issues such the construction of gender, sex, and sexuality, the n
WMNST 83N	First-Year Seminar in Women's Studies 3 Credits	WMNST 83N First-Year Seminar in Women's Studies (3) This course introduces first-year students to the complex and interdisciplinary field of Women's, Gender, and Sexuality Studies. Students develop an understanding of

WMNST 100	Introduction to Women's and Gender Studies 3 Credits	This introductory survey course fulfills requirements for General Education in Social Sciences, the Bachelor of Arts degree in Social and Behavioral Sciences, and US and International Cultures competence. It is also a prerequ
WMNST 100U	Introduction to Women's and Gender Studies 3 Credits	This introductory survey course fulfills requirements for General Education in Social Sciences, the Bachelor of Arts degree in Social and Behavioral Sciences, and US and International Cultures competence. It is also a prerequ
WMNST 101N	African American Women 3 Credits	This course offers an introduction to the sociological, historical, and political experiences of African American women, their roles and contributions to society. Through an interdisciplinary approach, we will pay particular atten
WMNST 102	Women of the African Diaspora 3 Credits	Women of the African Diaspora is an introduction to studying the lives of African Diaspora women and the systems of power that shape them across cultures and geographies. The course centers on the politics of race and g
WMNST 103	Racism and Sexism 3 Credits	This survey course examines racism and sexism as cultural, political and economic processes that shape contemporary social life in the United States. It provides an historical overview of the roots of modern racism and sexi
WMNST 104	Women and the American Experience 3 Credits	Selected aspects of the role of women in United States history and culture from colonial to modern times. AMST 104 / WMNST 104 Women and the American Experience (3) (GH;US)(BA) This course meets the Bachelor of Ar
WMNST 105N	Living in a Diverse World 3 Credits	This introductory survey course fulfills General Education Integrative Studies requirements in humanities and social sciences, and also meets the requirements for the United States Cultures Designation and Bachelor of Arts i
WMNST 106N	Representing Women and Gender in Literature, Art and Popular Cultures 3 Credits	Interdisciplinary consideration of primary works and scholarship pertaining to women in the humanities and the arts. WMNST 106N Representing Women and Gender in Literature, Art and Popular Cultures (3) (GA;GH;US;IL)(E

WMNST 106Q	Representing Women and Gender in Literature, Art and Popular Cultures 3 Credits	This course is an interdisciplinary consideration of primary works and scholarship pertaining to women in the humanities and the arts. This course meets the Bachelor of Arts degree requirements in Arts and Humanities and f
WMNST 110	Sociology of Gender 3 Credits	Changing sex role expectations and behavior for men and women in contemporary society. SOC (WMNST) 110 Sociology of Gender (3) (GS;US) (BA) This course meets the Bachelor of Arts degree requirements.This course
WMNST 116N	Family and Gender Roles in Modern History 3 Credits	This course explores the transformation of modern families in the "Western" world, beginning with the basic context and elements of families as early as sixteenth-century Europe and Colonial America. The course has a prim
WMNST 117	Women in United States History 3 Credits	HIST 117 / WMNST 117 provides students with an overview of the most important historical developments in the history of women in the United States, including women's actual experiences as members of a class, a race, a
WMNST 117H	Women in Modern History 3 Credits	Modernization and women: changing images and roles since mid-eighteenth century in the family, workshop, politics, society. Cross-cultural comparisons.
WMNST 120	Sex, Gender, and the Body 3 Credits	This introductory course considers core topics in the field of feminist sexuality studies to both unsettle popular mainstream discourses on sexuality and to aid students in developing a more comprehensive, inclusive, and ethi
WMNST 136	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid or
WMNST 136Y	Race, Gender, and Employment 3 Credits	This course will ask how race and gender affect work in the contemporary United States. We will consider how race and gender shape people's work opportunities, their wages at work, and whether they participate in paid or
WMNST 137	Gender, Sexuality, and Religion 3 Credits	WMNST 137 explores the history of different conceptions of gender and sexuality as they are understood within major religions (e.g. Hinduism, Judaism, Islam, Christianity, Buddhism, indigenous spiritual systems). The cours
WMNST 166	History of Sexuality 3 Credits	WMNST/HIST 166 History of Sexuality (3) (GH;US)This is a 100-level course on the history of sexuality, spanning several centuries and a wide range of contexts. The study of sexuality offers a particularly good lens for develo
WMNST 175N	Fashion, Gender, and Identity 3 Credits	Do clothes really "make" the woman? In this course, we explore how the living art and practice of fashion intersects with gender, and shapes our multiple identities. This is an integrative learning course, which means we bring
WMNST 194	Women Writers 3 Credits	Short stories, novels, poetry, drama, and essays by English, American, and other English-speaking women writers. ENGL (WMNST) 194 Women Writers (3) (GH;US;IL)(BA) This course meets the Bachelor of Arts degree requir
WMNST 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.

WMNST 197G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
WMNST 199	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WMNST 200	Global Feminisms 3 Credits	This course introduces students to the complexity of feminisms in the context of contemporary globalization. Much of the course focuses on the variety of feminist movement transnationally, particularly as those movements
WMNST 202N	Women, Gender, and Feminisms in Africa 3 Credits	This introductory course provides students with a broad interdisciplinary overview of scholarly research and theory related to women and gender studies in Africa, using both historical and contemporary examples from acros
WMNST 205	Gender, Diversity and the Media 3 Credits	COMM (WMNST) 205 Gender, Diversity and the Media (3) (GS;US)(BA) This course meets the Bachelor of Arts degree requirements. This course examines diversity, equity and inclusion issues in media content, media busine
WMNST 207N	LGBTQ+ Identity, Culture and The Arts 3 Credits	WMNST 207N: LGBTQ+ Identity, Culture and the Arts will blend theories and methods in the Social and Behavioral Sciences (GS) with those of the Integrative Arts (GA). The course introduces key ideas, concepts and issues
WMNST 213Y	African American Women's History 3 Credits	This course examines the social, political, and economic history of African American women in the United States from slavery to the present. Using secondary and primary sources along with film and discussion, we will explo
WMNST 220	Beyond Birth Control: Feminist Perspectives on Women's Sexualities 3 Credits	This course explores various aspects of women¿s sexualities from an interdisciplinary and intersectional feminist perspective. Assigned reading from feminist theory, social science research, and feminist sexologists will explo
WMNST 225N	Sexuality and Modern Visual Culture 3 Credits	ENGL 225N / ARTH 225N / WMNST 225N Sexuality and Modern Visual Culture (3) (GA;GH) An examination of the visual expression of gender and sexual identities in English-speaking cultures since the late nineteenth centur
WMNST 227	Introduction to Queer Theory 3 Credits	ENGL 227 Introduction to Sexuality Studies (3) (GH;US) This course focuses on the body of critical writings known as queer theory in order to analyze issues of sexuality and gender since 1969. The course interrogates sexua
WMNST 230N	Dangerous Bodies 3 Credits	This class will examine the ways bodies are marked as deviant, abnormal, and/or pathological by exploring processes of sexed, raced, gendered, and able-bodied normalization. Case studies range from turn-of-the-century s
WMNST 235	Gender and the Global Information Technology Sector 3 Credits	Integrates information technology and gender studies. Overview issues and socio-cultural shaping of gender in the IT field.

WMNST 240Q	Artistic Patronage in Europe 3 Credits	This course surveys the institutions and social networks in which European fine arts were created, consumed and critiqued. Beginning with the medieval period and ranging to the early 20th century, the course will examine th
WMNST 245	Introduction to LGBTQ Studies 3 Credits	An introduction to the dominant themes in Lesbian, Gay, Bisexual, Transgender, and Queer Studies, with an emphasis on both literary & cultural studies. This course explores the history of modern, western ideas about sexua
WMNST 250	Sexual Identity over the Life Span 3 Credits	Concepts of affectional and sexual orientation over life span, with emphasis on lesbian and gay male personal, family, and community adaptation. HD FS (WMNST) 250 Sexual Identity over the Life Span (3) (US) This course
WMNST 266Y	Sexuality and Violence in Nineteenth-Century America 3 Credits	HIST/WMNST 266Y explores the social and cultural history of sexuality and violence in the United States during the nineteenth century. Both sexuality and violence are extremely broad topics, and the course will focus on a f
WMNST 270	Race and Gender in Literature Translated from French 3 Credits	A critical presentation, taught in English, of changing ideas and values on race and gender in French and Francophone literatures.
WMNST 280	Gendering the Divine in Indian and South Asian Religions 3 Credits	Throughout South Asia, ancient religious beliefs and cultural traditions interact with forms of modernity that constitute the daily lives and practices of women and men today. Focusing on conceptualizations of sex and gende
WMNST 294	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
WMNST 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WMNST 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WMNST 297G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This is a Special Topics GenEd course.
WMNST 297N	Special Topics - Inter Domain 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest. This Special Topics is an Inter-Domain GenEd course
WMNST 299	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WMNST 300	Latinx Gender and Sexuality Studies 3 Credits	WMNST/LTNST 300 Latinx Gender and Sexuality Studies (3) (GH/US/BA) This course examines the historical development, theoretical premises, and political, social, and artistic contributions of Latinx feminisms in the Unitec
WMNST 301N	Sexualities, Gender and Power: Feminist Thought and Politics 3 Credits	WMNST 301N Sexualities, Gender and Power: Feminist Thought and Politics (3) (GH;GS;US;) This course is an interdisciplinary survey of historical and contemporary feminist theories in both the United States and internatior
WMNST 303	Race and Gender in the Americas: Latin American and Caribbean Cultures 3 Credits	Utilizing a theoretical framework of intersectionality, this course examines historical and cultural constructions of race and gender in Latin America and the Caribbean. AFAM 303 / ANTH 303 / WMNST 303 Race and Gender i
WMNST 350	Gender, War, and Militarism 3 Credits	This interdisciplinary seminar uses feminist theory to critically examine the ways in which war and militarism are deeply gendered. We will look at women's experiences of armed conflict across the world, but also the militariz
WMNST 364N	Black & White Sexuality 3 Credits	This course explains how narrow, "black and white," ways of thinking limit our understanding of the diverse expressions of human sexuality. The course title's double meaning also references the various ways that sexuality is
WMNST 395	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
WMNST 399	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WMNST 400N	Debates in Contemporary Feminism 3 Credits	This course is an advanced seminar in feminist and gender theory. The primary focus is critical engagement with social, political, and cultural theories of the social construction of gender and gender difference, and of the sou
WMNST 401	Doing Feminism: Theory and Practice 3 Credits	Advanced analysis of feminist theory and the nature of its integration (sometimes uneasily) within feminist movements and practices. WMNST 401 Feminist Perspectives on Research and Teaching (3)The course explores cur
WMNST 407W	Women and Theatre 3 Credits	A study of theatre practice and dramatic literature as informed by issues of gender, race, and ethnic background. THEA (WMNST) 407 Women and Theatre (3) (US)(BA) This course meets the Bachelor of Arts degree requirem
WMNST 412	Education and the Status of Women 3 Credits	An examination of the relationship of education to the status of women in American society.
WMNST 420W	Gender and International Development 3 Credits	This course examines gendered processes of economic and social change in the Global South in a context of rapid globalization. We will study how gender inequities and inequalities shape and are shaped by economic restr
WMNST 423	Sexual and Domestic Violence 3 Credits	Legal, sociological, and psychological perspectives on sexual and domestic violence. CRIMJ 423 / CRIM 423 / WMNST 423 Sexual and Domestic Violence (3) (US) This course investigates violence against women, specifical
WMNST 424	Women and Sport 3 Credits	An interdisciplinary approach to contemporary issues related to women and sport from historical, physiological, psychological, and sociological perspectives.
WMNST 426W	Gendered Worlds 3 Credits	Gendered Worlds examines how systems of dominance manifest in everyday life. Through an intersectional approach to social differences, such as gender, race, class, ethnicity, age, ability, and sexuality, the course highlight
WMNST 428	Gender and Politics 3 Credits	Gender in politics in the United States and around the world; major areas of women and politics research. PL SC (WMNST) 428 Gender and Politics (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements
WMNST 430	Women in American Society 3 Credits	A historical study of women's roles and experiences in the United States.
WMNST 438	Seminar in Feminist Philosophy 3 Credits	This course will explore some of the influential theories and texts in the field of feminist philosophy. Feminist philosophy encompasses a broad range of inquiry, from political and ethical issues to foundational metaphysical ar
WMNST 439	Women and the Holocaust 3 Credits	Analysis of women's experience in the Holocaust and exploration of the role of gender in Holocaust Studies. J ST (HIST/WMNST) 439 Women and the Holocaust (3) Most of the early study of the Holocaust focused almost e
WMNST 440W	Women in Global Cities 3 Credits	This course focuses on women in various global contexts, including Tehran, Mumbai, Singapore, São Paulo, Philadelphia, and Johannesburg among others. The course is driven by questions such as: How do women in thes
WMNST 450Y	Gender and Sexuality in Ancient Greece and Rome 3 Credits/Maximum of 3	An examination of gender, sexuality, and sexual desire in ancient Greece and Rome. This course examines issues of gender and sexuality in Greece and Rome. Through close analysis of ancient texts and artifacts, we will exp
WMNST 453	Women and the Criminal Justice System 3 Credits	This course focuses on the experiences of women as offenders, victims, and professionals in the criminal justice system. CRIMJ 453 / CRIM 453 / WMNST 453 Women and the Criminal Justice System (3) (US) The course wil
WMNST 455	Topics in Gender and Communication 3 Credits	This course examines how research and theory in communication can be applied to a range of gender issues. Early communication scholarship emphasized differences between the communication styles of (presumably cisg
WMNST 456	Gender, Occupations, and Professions 3 Credits	The role of gender in shaping contemporary North American patterns of employment, occupational roles, and statuses.
WMNST 458	Critical Feminist Issues in Reproduction 3 Credits	This course examines women's reproductive health issues from a feminist perspective. Reproduction has always been thought of as 'women¿s work,' yet decisions about reproduction are rarely made by women. This course

WMNST 462	Reading Black, Reading Feminist 3 Credits	This course examines intersectional identity and its representations of gender, class, race, sexuality, and cultural difference in texts by black American women. The course also identifies analyzes major issues concerning the
WMNST 464	Feminine/Masculine 3 Credits	Study of sex role learning; investigating feminine/masculine labeling; implications for contemporary society. BE SC 464 BE SC (WMNST) 464 Feminine and Masculine (3) (US) This course provides a critical examination of the
WMNST 466	Lesbian and Gay History 3 Credits	Critical exploration of the history of sexuality, focusing especially on the emergence of modern lesbian and gay identities. WMNST (HIST) 466 Lesbian and Gay History (3) (US;IL) This course will explore the relationships in di
WMNST 471	The Psychology of Gender 3 Credits	Theories and research on gender differences and gender roles. Emphasis on women's and men's current positions in society.
WMNST 472	Work-Life Practices and Policies 3 Credits	Explore the causes and consequences of conflicts between work, family, and other life commitments, and how these may be resolved. LER 472 Work-Life Practices and Policies (3)(BA) This course meets the Bachelor of Arts
WMNST 476W	Anthropology of Gender 3 Credits	Cross-cultural construction of gender and sex roles; theories of gender construction; case studies and practical effects. ANTH 476 / WMNST 476 Anthropology of Gender (3)Students will learn the current theoretical approach
WMNST 477	Sociology of Sexuality 3 Credits	An analysis of the demographic, social, and cultural factors affecting the developments and experience of sexuality in contemporary society.
WMNST 480	Italian Women Writers 3 Credits	Italian women have often been stereotyped as the "Mamma" or the "Nonna" who cooks, prays, and idolizes her sons. Such images do not accommodate the wide variety of experiences and contributions of Italian women th
WMNST 489	British Women Writers 3 Credits	A study of selected British women writers. ENGL (WMNST) 489 British Women Writers (3) This course provides the opportunity to study writing by British Women from a historical perspective and to explore the views these w
WMNST 490	Women Writers and Their Worlds 3 Credits	American and British literature written from the perspective of women. ENGL (WMNST) 490 Women Writers and Their Worlds (3) (US;IL)(BA) This course meets the Bachelor of Arts degree requirements. ENGL/WMNST 490 c
WMNST 491	American Women Writers 3 Credits	A study of selected American women writers. ENGL 492 / AMST 476 / WMNST 491 American Women Writers (3) A study of selected women writers, this course provides the opportunity to study writing by American women
WMNST 492W	Contemporary Feminist Analysis: The Capstone Senior Seminar 3 Credits	Applied critical analysis of any aspect of society and/or culture from a contemporary feminist perspective. WMNST 492W Current Feminist Issues This course is the capstone course for the Women's Studies major. We keep
WMNST 494	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
WMNST 494H	Research Project 1-12 Credits/Maximum of 12	Supervised student activities on research projects identified on an individual or small-group basis.
WMNST 495	Internship 1-18 Credits/Maximum of 18	Supervised off-campus, nongroup instruction including field experiences, practica, or internships. Written and oral critique of activity required.
WMNST 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside scope of formal courses.
WMNST 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WMNST 499	Foreign Studies 1-12 Credits/Maximum of 12	Courses offered in foreign countries by individual or group instruction.
WP 203	Anatomical Properties of Wood 1 Credits	Provide information on tree form/growth, cell wall formation/composition, structure of wood/bark cells; macroscopic/microscopic identification of hardwood/softwood cells. W P 203 Anatomical Properties of Wood (1) The pu
WP 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WP 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WP 495	Wood Products Internship 1-6 Credits/Maximum of 6	Supervised field experience related to the student's major.
WP 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WP 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WP 499	Foreign Studies 1-12 Credits	Courses offered in foreign countries by individual or group instruction.
WFED 1	Education for Work: Trends and Issues 3 Credits	Overview of the history and philosophies of education for employment, current issues, and school to work transition system.
WFED 99	Foreign Studies 1-12 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
WFED 100	Orientation to Teaching Vocational Industrial Education/Health Occupations Educatio 2 Credits	Basic elements of preparing to teach vocational trade and industrial/health occupations education subjects in the schools of Pennsylvania.
WFED 101	Early Field Experience in Teaching Vocational Industrial Education/Health Occupatior 1 Credits	Discussion and observation of in-school practices to aid the student in making vocational industrial education/health occupations education career decisions.
WFED 105	Integrated Curriculum Implementation 3 Credits	Occupational analysis for instructional planning; emphasis on instructional methods to deliver a competency based program in an integrated learning environment.
WFED 106	Program and Facilities Management 3 Credits	Organization and management of learning laboratory to facilitate the delivery of a competency based program in a safe environment.
WFED 197	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFED 197G	Special Topics - GenEd 1-9 Credits/Maximum of 9	Formal course given on a topical or special interest subject offered infrequently; several different topics may be taught in one year or semester. This Special Topics is a GenEd course
WFED 199	Foreign Studies 1-12 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
WFED 207W	Assessment Techniques 3 Credits	Assessment, recording, and reporting of learning in an integrated competency based vocational education system.
WFED 270	Introduction to Industrial Training 3 Credits	Overview of training profession. Introduction to economic and psychological foundations. Examination of relationship of industrial training to education. WF ED 270 Introduction to Industrial Training (3) This course is design
WFED 296	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WFED 297	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFED 299	Foreign Studies 1-12 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
WFED 310	Leadership Competencies for Supervisors 3 Credits	Designed to teach contemporary supervisory leadership competencies for mid- career learners with front-line supervisory responsibilities in the workplace. WF ED 310 Leadership Competencies for Supervisors (3) Leadershi
WFED 323	Vocational Student Organizations 3 Credits	Methods in originating, managing, and advising vocational student organizations.
WFED 395A	Trade and Industrial Occupational Experience 1-8 Credits/Maximum of 24	Individual work experience in manufacturing environment or skilled craft area to develop professional competence in specific occupation.
WFED 395B	Occupational Resources Competence 1-8 Credits/Maximum of 24	WF ED 395B Occupational Resources Competence (1-8 per semester/maximum of 24) Occupational Resources Competence is a course designed primarily for adult learners who demonstrate an adequate understanding of
WFED 395C	Occupational and Professional Competence 1-8 Credits/Maximum of 24	WF ED 395C Occupational and Professional Competence (1-8 per semester/maximum of 24) Occupational and Professional Competence is a course designed primarily for adult learners who demonstrate an adequate under
WFED 395D	Occupational Work Experience 1-8 Credits/Maximum of 24	Individual work experience in the manufacturing, health, service, or financial arena.
WFED 397	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFED 399	Foreign Studies 1-12 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
WFED 402	Supervision of Vocational Education 3 Credits	For administrators, supervisors, and teachers responsible for improvement of instruction through supervision or for students preparing for supervisory work.
WFED 403	Technologies for Work Effectiveness 3 Credits	This seminar-style course is designed to provide workforce professionals with opportunities to learn about contemporary workplace technologies, tools and platforms, share experiences, and to be able to make informed dec
WFED 405	Project Management for Professionals 3 Credits	Covers the essential concepts and skills needed to make effective contributions on projects, on time and within budget. WF ED (ENGR) 405 Project Management for Professionals (3) Professionals in the workplace carry out
WFED 410	Leadership Competencies for Professionals 3 Credits	Designed to teach contemporary professional leadership competencies for workforce professionals who do not currently have supervisory responsibilities. WF ED 410 Leadership Competencies for Professionals (3) Leadersh
WFED 411	Occupational Safety and Health for Workforce Education and Development Profess 3 Credits	This course assists participants in creating and supporting workplaces and educational environments free of occupational safety and health hazards. WF ED 411 Occupational Safety and Health for Workforce Education and
WFED 413	Workforce Education for Diverse Learners 3 Credits	This course assists students in creating and supporting educational environments which promote enhanced learning and skill development for diverse learners. A primary focus is placed on program modifications, supplemer
WFED 414	Teaching Career and Technical Education Content to Diverse Learners 3 Credits	This course explores the legal aspects of transitioning students from school to college and work, to assist Career and Technical Education (CTE) teachers in becoming active participants in assisting learners with special neec
WFED 424	Facilitating Career Development 3 Credits	This course provides individuals with relevant skills and knowledge to assist others in planning careers and obtaining meaningful work. CN ED (WF ED) 424 Facilitating Career Development (3) This course provides individuals
WFED 428	Fiscal Accounting and Management for Workforce Development Professionals 3 Credits/Maximum of 3	This course explores the subject of accounting through the sub-disciplines of financial and managerial accounting for Workforce Development Professionals.
WFED 441	Conceptual and Legal Bases for Cooperative Vocational Education 2 Credits	History, conceptual and legal bases for a cooperative vocational education program.
WFED 442	Operating Cooperative Vocational Education Programs 2 Credits	Student and training station selection, training plan and related subject development, records and reporting systems, school-industry coordination.

WFED 445	Vocational Guidance 3 Credits	Problems and possibilities of vocational guidance; the field of guidance and guidance literature; methods of field work; school guidance techniques.
WFED 450	Cultural Diversity in the Workplace 3 Credits	Provides opportunities for students to explore different cultures and mores that are changing the dynamics of the workplace.
WFED 451	Lean-Sigma for Professionals 3 Credits	The course focuses on essential lean and six sigma concepts to improve processes in any industry.
WFED 471	Training in Industry and Business 3 Credits	Appraisal of training functions and development of competencies in work analysis, design, development, delivery, and evaluation of training.
WFED 472	Platform Skills for Workplace Learning and Performance 3 Credits	Platform skills focuses on theory and practice related to delivering well-crafted and effective training presentations. Platform skills are particularly critical in business, industry and technical education, as the content covered i
WFED 495	Internship 1-6 Credits/Maximum of 6	Supervised off-campus, nongroup instruction including field experiences, practicums, or internships. Written and oral critique of activity required.
WFED 495A	Cooperative Education Practicum 2 Credits	Validation of competencies learned in prerequisite courses during interaction with professional staff while functioning under the supervision of a certified cooperative coordinator.
WFED 495C	Student Teaching 10 Credits/Maximum of 10	Supervised observation and practice teaching in approved vocational industrial schools/health occupations education settings.
WFED 495D	Instructional Internship in Industrial Training 5 Credits	Supervised internship in industrial training. Interns will be expected to perform instructional duties in industrial environments.
WFED 496	Independent Studies 1-18 Credits/Maximum of 18	Creative projects, including research and design, which are supervised on an individual basis and which fall outside the scope of formal courses.
WFED 497	Special Topics 1-9 Credits/Maximum of 9	Formal courses given infrequently to explore, in depth, a comparatively narrow subject which may be topical or of special interest.
WFED 499	Foreign Studies 1-12 Credits/Maximum of 12	Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest. Several different topics may be taught in one year or semester. A specific title may be used in e
WLED 300	Foundations of Second Language Teaching 3 Credits	Critical understanding of basic concepts and principles in second language acquisition and teaching. WLED 300 Foundations of Second Language Teaching (3)This course is designed to give prospective World Languages te
WLED 399A	Language Learning Through Study Abroad 3 Credits	Use of online technologies during study abroad to promote language and culture learning and to consider implications for teaching.
WLED 400	Foundations of Language in Second Language Teaching 3 Credits	Critical understanding of basic concepts and principles in second language acquisition and teaching. WLED 400 Foundations of Language in Second Language Teaching (3)This is an advanced course designed for practicing
WLED 411	Methods of Teaching World Languages in Grades 1-5 3 Credits	Exploration of the complexity of teaching World Languages and development of curricular designs for teaching in grades 1-5 schools. WLED 411 Methods for Teaching World Languages in Grades 1-5 In this course prospect
WLED 412W	Methods of Teaching World Languages in Grades 6-12 3 Credits	Exploring the complexity of teaching World Languages and development of curricular designs for teaching World Languages in grades 6-12. WLED 412 Methods of Teaching World Languages in Grades 6-12 (3)The purpose o
WLED 444	Language, Culture and the Classroom: Issues for Practitioners 3 Credits	Critical understanding of cultural linguistic diversity to facilitate the inclusion of English Language Learners in a globalized classroom. CIED 444 WLED 444 Language, Culture and the Classroom: Issues for Practitioners (3) In
WLED 483	Evaluating Schools Performances and Programs with English Language Learner 3 Credits	Using/adapting multiple techniques to asses English Language Learners (ELLs) language and other school subjects. WL ED 483 Evaluating Schools Performances and Programs with English Language Learners (ELLs) (3) Th
WLED 495	**SPECIAL TOPICS** 3 Credits	No description
WLED 495B	Field Experience for World Languages Teacher Preparation in Grades 1-5 3 Credits/Maximum of 3	WL ED 495B Field Experience for World Languages Teacher Preparation in Grades 1-5 (3) Practicum situation where Prospective World Language teachers will demonstrate acquired knowledge on second language learning/
WLED 495C	Field Experience for World Languages Teacher Preparation in Grades 6-12 3 Credits/Maximum of 3	WL ED 495C Field Experience for World Languages Teacher Preparation in Grades 6-12 (3) Practicum situation where prospective World Language teachers will demonstrate acquired knowledge on second language learning

Prerequisites	department_url
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: MATH 21 or a higher math course or a satisfactory score on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: MATH 21 or a higher math course or a satisfactory score on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: MATH 21 or a higher math course or a satisfactory score on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 and (MIS 204 or MIS 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 and FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 305 or ACCTG 371	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 or ACCTG 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 371 or ACCTG 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 371 or ACCTG 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 and (SCM 200 or STAT 200) and ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 and (BA 301 or FIN 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: CAS 100 and ACCTG 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 471 and ACCTG 310 and ACCTG 340 and Enforced Concurrent at Enrollment: ACCTG 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 403 or ACCTG 403W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: (ACCTG 371 or ACCTG 471) and (MIS 204 or MIS 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 340 or ACCTG 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 471 and ACCTG 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 311 or ACCTG 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 211 or ACCTG 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 371 or ACCTG 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: ACCTG 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite or Concurrent at Enrollment: ACCTG 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite or Concurrent at Enrollment: ACCTG 472 and (ACCTG 403 or ACCTG 403W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acctg/
General Education: Natural Sciences (GN)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/acs/
General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/

International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisites: 5th Semester standing or Graduate Status or Non-Degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisites: 5th Semester standing or Graduate Status or Non-Degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisites: 5th Semester standing or Graduate Status or Non-Degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisites: 5th Semester standing or Graduate Status or Non-Degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisites: 5th Semester standing or graduate status or non-degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Cross-listed with: CIED 470	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
Prerequisite: Associate degree or 60 undergraduate credits	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/adted/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Cross-listed with: STS 55 Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: (EMCH 210 or EMCH 213) and MATH 220 and [MATH 230 or (MATH 231 and MATH 232)] and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 313 and EMCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Concurrent at Enrollment: AERSP 301 and AERSP 311 and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 311 and AERSP 313	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: EMCH 212 and MATH 220 and [MATH 230 or (MATH 231 and MATH 232)] and (MATH 250 or MATH 25	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: EMCH 212 and MATH 220 and [MATH 230 or (MATH 231 and MATH 232)] and (MATH 250 or MATH 25	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 311 and AERSP 313 and (ME 201 or ME 300)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: MATH 220 and [MATH 230 or (MATH 231 and MATH 232)] and (MATH 250 or MATH 251) and (CMPSC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 309 . Enforced Concurrent at Enrollment: AERSP 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 301 and AERSP 401A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 306 . Enforced Concurrent at Enrollment: AERSP 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 301 and AERSP 402A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Concurrent at Enrollment: (AERSP 413 or AERSP 450) and AERSP 462 Recommended Preparations: Although not required, succ	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 403A Recommended Preparations: Although not required, successful completion of, or registr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 305W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Prerequisite: one course in fluid mechanics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 304 and AERSP 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 308 or AERSP 312 or ME 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: (AERSP 312 or ME 320) and (MATH 250 or MATH 251) and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: (CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201) and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 410 or ME 432	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: CMPSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 304 and AERSP 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 450 or EMCH 409 or PHYS 419	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: MATH 220 and (CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201 or AERSP 424)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: AERSP 301. Enforced Concurrent at Enrollment: AERSP 304 and EMCH 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: EMCH 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or PHYS 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/

Enforced Prerequisite at Enrollment: (C or better in EE 330) or PHYS 400 or (METEO 421 and METEO 431)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: Seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Enforced Prerequisite at Enrollment: Seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aersp/
Prerequisite: students must be participating in the Pennypacker Experience to take this course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisites: AFAM 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: WMNST 101N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: WMNST 102 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: SOC 103, WMNST 103 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Social and Behavioral Sciences	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: RLST 116		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: World Cultures	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: INART 126N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Cross-listed with: AFR 132, SPAN 132		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: LHR 136, WMNST 136		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Social and Behavioral Sciences	
	United States Cultures (US)	
	General Education: Social and Behavioral Scien (GS)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: LHR 136Y, WMNST 136Y		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Social and Behavioral Sciences	
	United States Cultures (US)	
	General Education: Social and Behavioral Scien (GS)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
	Writing Across the Curriculum	
Cross-listed with: ENGL 139		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 141N, INART 141N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: RLST 145		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: RLST 146		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
Cross-listed with: RLST 147		https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	

Cross-listed with: HIST 152 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: HIST 164 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: MUSIC 207N Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisites: AFAM 100; AFAM 110; AFAM 152	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: THEA 208 Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: HIST 210 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: HIST 211 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: HIST 213Y, WMNST 213Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Recommended Preparations: AMST 100 or AFAM 126 or INART 126	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: ENGL 235 Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: HIST 250 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: BBH 101 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: ANTH 303, WMNST 303 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/

Cross-listed with: WMNST 364N United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: AF AM100 , AF AM101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: AF AM101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Cross-listed with: STS 416 International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: 3rd Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: 3 credits in African history; 3 credits in African political science; or 3 credits in American political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: HIST 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: AAA S 100 level course and PL SC001 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisites: AFAM 100 or PHIL 009 and 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: AF AM100 , HIST 021 , HIST 152 , PL SC001 , or PL SC002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Prerequisite: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afam/
Bachelor of Arts: Natural Sciences International Cultures (IL) General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: AFAM 132, SPAN 132 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: HIST 191 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/

Cross-listed with: HIST 192 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: HIST 192H Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: WMNST 202N Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: AFR 105 and AFR 110N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: SOC 209 International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: APLNG 230N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Enforced Prerequisite at Enrollment: BBH 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: APLNG 310, GLIS 310 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Cross-listed with: ARTH 335 Bachelor of Arts: Arts Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: LING 100 or AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: AAA S110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: PL SC014 , PL SC003 , AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Enforced Prerequisite at Enrollment: AFAM 100N or AFR 110 or PLSC 3 or PLSC 14 or PLSC 200N or PLSC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerquisite: AFR 110N; PLSC 1; PLSC 3; PLSC 7N; PLSC 14; PLSC 17N; PLSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/

Prerequisite: GEOG 010 or GEOG 020 or GEOG 030 or GEOG 123 or GEOG 124 or GEOG 130 or EARTH105 or AFR 105 or AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Enforced Prerequisite at Enrollment: KINES 100 or 3 credits of AFR or 3 credits of HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: 3 credits from: AFR 110 , PL SC003 , PL SC020 , or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: AFR 110 or at least one of the following: PL SC003 or PL SC014 or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/afr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 101 or ECON 102 or STAT 200 or STAT 240 or STAT 250 or SCM 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
United States Cultures (US) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102) and AGBM 102 and AGBM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102) and AGBM 102 and AGBM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102) and AGBM 102 and AGBM 106 and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102) and AGBM 102 and AGBM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102) and AGBM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 106 and (BA 301 or FIN 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 338	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 302 or junior/senior standing in Food Science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 308 or MGMT 215 or ENGR 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 101 or ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: AGBM 320 and AGBM 338	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: INTAG 100 or AGBM 101 or ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: INTAG 470A or AGBM 470A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: Junior or senior standing in the Schreyer Honors College and permission of the Agribusiness Manager	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: Prior approval by department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Enforced Prerequisite at Enrollment: Prior approval by department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agbm/
Cross-listed with: BE 100 First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/

Enforced Concurrent at Enrollment CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: (MATH 110 or MATH 140) and (PHYS 250 or PHYS 211)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: CHEM 110. Enforced Concurrent at Enrollment: PHYS 211 or PHYS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Concurrent at Enrollment: ABSM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ME 300 or ABSM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Concurrent at Enrollment: PHYS 250 or PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: 5th Semester standing and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102 or ECON 104) and 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: CHEM 110 and ABSM 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 300 and ABSM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: BE 306 or ABSM 310 or ME 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 300 Enforced Concurrent at Enrollment: ABSM 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: BE 301 or ME 330 or STAT 240 or STAT 200 or STAT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Concurrent at Enrollment: 5th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Concurrent at Enrollment: 7th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 391 and ABSM 392 Enforced Concurrent at Enrollment ABSM 429	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: ABSM 430W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Concurrent at Enrollment: 5th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
Enforced Prerequisite at Enrollment: Junior or senior standing in the Schreyer Honors College and permission of a BioRenewable Systems	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/absm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Cross-listed with: CAS 216	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: AEE 100 and AEE 295 and AEE 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: INTAG 100N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: AEE 100 and AEE 295 and AEE 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: ANSC 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: 3 credits in COMM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: AEE 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of the Agricultural and Extensio	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: AEE 412 and AEE 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aee/
Enforced Prerequisite at Enrollment: Grade of C or better in COMM 260W or equivalent coursework	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agcom/
Enforced Prerequisite at Enrollment: Grade of C or better in COMM 260W and prior approval of the professor-in-charge of Minor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agcom/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of the Agricultural Science hon	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
Enforced Prerequisite at Enrollment: Fifth-semester standing in the Agricultural Science major with a G.P.A. of 2.00 or greater and prior app	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agsc/
Cross-listed with: SC 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Enforced Prerequisite at Enrollment: First or second-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Cross-listed with: CED 160 General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Cross-listed with: FDSC 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Prerequisite: approval of proposed assignment by instructor prior to advance registration deadline in semester preceding that semester i	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ag/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
Cross-listed with: METEO 122 General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
Enforced Prerequisite at Enrollment: (BIOL 11 and BIOL 12) or BIOL 110 or BIOL 127 or BISC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
Enforced Prerequisite at Enrollment: AGRO 28 or HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
Enforced Prerequisite at Enrollment: AGRO 28 or HORT 101 Recommended Preparation: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/

Enforced Prerequisite at Enrollment: Must take two or more of the following - ENT 313 or PPEM 405 or PPEM 318 or HORT 238	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ageco/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: AGRO 28	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: AGRO 28	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: AGRO 28	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: AGRO 28 or HORT 101 Recommended Preparation: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
Enforced Prerequisite at Enrollment: Approval of proposed assignment by instructor prior to registration.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/agro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
Prerequisite: AIR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
Prerequisites: AIR 351	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
Prerequisite: AIR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
Prerequisite: AIR 451	https://bulletins.psu.edu/university-course-descriptions/undergraduate/air/
Cross-listed with: HIST 3 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: WMNST 104 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: ENGL 105 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: COMM 100N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: HIST 127, LTNST 127 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/

Cross-listed with: ENGL 134	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: ENGL 135	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: RLST 140Y	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: HIST 150	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Recommended Preparations: ENGL 15		https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: HIST 151N, STS 151N	Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: HIST 155	Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: AAS 100N	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: HIST 161	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: ENGL 170N	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
General Education: Humanities (GH)	General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/

Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Recommended Preparations: AMST 100 or AFAM 126 or INART 126	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: ARTH 307N Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: ARTH 308N Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits of American Studies or History or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies or History	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits of American Studies or History	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits of American Studies or History	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits of American Studies or History	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits of American Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Cross-listed with: RLST 422 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: (AMST 105; or ENGL 105) and (AMST 196; or ENGL 196)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies or Labor and Industrial Relations, or Sociology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: KINES 100 or KINES 341 or COMM 170 or RPTM 120 or HIST 113 or ENGL 234 or AFAM 114 or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: HIST 021 , 3 additional credits in history, economics, or political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: COMM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: 6 credits in American Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: ENGL 015 or ENGL 030H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Prerequisite: senior-level status for undergraduate students; 18 credits of course work in major for graduate students; approval of progra	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/

Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/amst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 100 and Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Cross-listed with: FDSC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: (CHEM 101 or CHEM 110 or CHEM 130) and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: (BIOL 11 and BIOL 12) or BIOL 110 or at least third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: CHEM 202 or CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: MICRB 106 or MICRB 201 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 327 and approved level of horsemanship	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL 110 or (BIOL 11 and BIOL 12)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Concurrent at Enrollment: ANSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: Animal Sciences majors; 6 credits in major plus approval of proposed assignment by instructor prior to	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 322 or BIOL 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: (BIOL 11 and BIOL 12) or BIOL 110 or BIOL 127 or BISC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 201 or 6 credits of biology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/

Enforced Prerequisite at Enrollment: ANSC 322 or BIOL 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 324	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: (MICRB 106 and MICRB 107) or (MICRB 201 and MICRB 202) Enforced Concurrent at Enrollment: AN	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 225 or ANSC 217 or ANSC 421 or ANSC 424 Recommended Preparation: AED 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 201 and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 309 or ANSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL 110 or ANSC 201 or ANSC 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 310 and ANSC 350 and ANSC 410 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 310 Enforced Concurrent at Enrollment: ANSC 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: (MICRB 106 or MICRB 201) Recommended Preparation: (STAT 200 or STAT 240 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 327 and permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: ANSC 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Prerequisites: ANSC 201 Recommended Preparation: ANSC 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: BIOL110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: Junior or senior status, approval of an Animal Science faculty supervisor, and approval of the Undergra	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyers Honors College and permission of an Animal Science honors a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ansc/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/

General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Cross-listed with: JST 60N, PLSC 60N, SOC 60N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Recommended Preparation: An introductory course in anthropology is recommended, but not required.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Cross-listed with: HIST 129N, PLANT 129N Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences Bachelor of Arts: World Cultures General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/

Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Cross-listed with: PSYCH 150N Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Cross-listed with: PSYCH 150Q Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Cross-listed with: AFAM 303, WMNST 303 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: ANTH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Recommended Preparation: ANTH 21 and ANTH 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Recommended Preparation: ANTH 219	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: 3 credits in CAMS or 3 credits in ANTH or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: ANTH 2N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: ANTH 140 Permission of program ¿ Student must be 21 years of age on or before the first day of fall classes.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: 3 credits in CAMS or 3 credits in ANTH or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: ANTH 45	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Enforced Prerequisite at Enrollment: Three credits in JST or ANTH or SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: Three credits in ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Enforced Prerequisite at Enrollment: ANTH 21 or BIOL 133 or BIOL 222 or BIOL 230W or BIOL 230M or BIOL 322 or BMB 251 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Enforced Prerequisite at Enrollment: ANTH 21 or BIOL 133 or BIOL 222 or BIOL 230W or BIOL 230M or BIOL 322 or BMB 251 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH or 3 credits of BIOL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH or 3 credits of WMNST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: 5th semester standing Recommended Preparation: Introductory courses in Anthropology, Asian Studies, History, or Religions	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisites: 3 credits of ANTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/anth/
Prerequisite: PSYCH 100 Introductory Psychology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aba/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aba/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Cross-listed with: AFR 230N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Prerequisite: ENGL 015; ESL 015	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Cross-listed with: AFR 310, GLIS 310 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Cross-listed with: JST 320N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Prerequisite: ASIA 100; ASIA 101; ASIA 102; ASIA 103; ASIA 104; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Prerequisite: C or better in APLNG 290	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/

Prerequisite: APLNG 290N Concurrent: APLNG 450W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aplng/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or CAS 137H or ENGL 137H or CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
Enforced Prerequisite at Enrollment: Semester standing of 3rd or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ayfce/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: ARAB 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: ARAB 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: ARAB 003 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Cross-listed with: RLST 164 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Cross-listed with: HIST 165, RLST 165 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: ARAB 110 or approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Prerequisite: ARAB 401 or approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Prerequisite: algebra, trigonometry	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: (EMCH 211 and EMCH 213) or EMCH 210 or EMCH 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Concurrent at Enrollment: AE 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: ME 201. Enforced Concurrent at Enrollment: AE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/

Enforced Prerequisite at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221 and AE 222 and AE 308	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221 and AE 222 and AE 308	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 401 and AE 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221 and AE 222 and AE 308	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: (AE 308 or CE 340) and (AE 402 or AE 404)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 210 and 3 credits of MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 308	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 402 and AE 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 402 or CE 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 240	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 424 or AE 476 or AE 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 202 or AE 470 or ARCH 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 310 and AE 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: ARCH 130A and AE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Concurrent at Enrollment: AE 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 467	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 311 or EE 210 or EE 211 or EE 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 372 or CE 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 372 or CE 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 475	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 475. Enforced Concurrent at Enrollment: AE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 221 and EMCH 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: (ARCH 441 or ARCH 442) and 8th semester standing or higher in AE_BAE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 481W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: AE 481W Enforced Corequisite at Enrollment: AE 882	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Recommended Preparations: Students must have approval of a thesis adviser before scheduling this course.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
Enforced Prerequisite at Enrollment: (ARCH 441 or ARCH 442) and 8th semester standing or higher in AE_BAE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ae/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Concurrent at Enrollment: ARCH 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in: ARCH 131 and ARCH 121 Enforced Concurrent at Enrollment: ARCH 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: Architectural Engineering majors only	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: Architectural Engineering majors only and ARCH 130A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/

Enforced Concurrent at Enrollment: ARCH 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 131 and ARCH 121 Enforced concurrent at Enrollment: ARCH 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Bachelor of Arts: Arts Bachelor of Arts: Natural Sciences General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 132 and AE 210 Enforced Concurrent at Enrollment: ARCH 231 and AE 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in: ARCH 203 and AE 421 Enforced Concurrent at Enrollment: ARCH 232 and AE 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Recommended Preparation: Survey course in architectural history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in: ARCH 132 and ARCH 122 Enforced Concurrent at Enrollment: ARCH 203 and AE 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in: ARCH 231 and ARCH 203 and AE 421 Enforced Concurrent at Enrollment: ARCH 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H and C or better in ARCH 210 and ARTH201 and ARTH202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 232 and ARCH 204 and AE 422. Enforced Concurrent at Enrollment: AE 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 331 and AE 211. Enforced Concurrent at Enrollment: AE 424	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: ARCH 380 Enforced Concurrent at Enrollment: ARCH 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: ARCH 332 and ARCH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: ARCH 130A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: ARCH 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Concurrents at Enrollment: ARCH 491 or ARCH 533	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Corequisite at Enrollment ARCH 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: Approval by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in ARCH 311W and ARCH 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 491 Enforced Concurrent at Enrollment: ARCH 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Faculty approval of work experience proposal including employment agreement with an approved supervisor (e.g., registered architect or c	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: Seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 332 and ARCH 480 Enforced Concurrent at Enrollment: ARCH 499B and ARCH 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 332 and ARCH 480 Enforced Concurrent at Enrollment: ARCH 499A and ARCH 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in ARCH 332 and ARCH 480 Enforced Concurrent at Enrollment: ARCH 499B and ARCH 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
Enforced Prerequisite at Enrollment: C or better in: ARCH 431 and ARCH 480 and ARCH 499A and ARCH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/

Prerequisite: ARMY 301		https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
Prerequisite: ARMY 302		https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
Prerequisite: ARMY 302		https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/army/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
First-Year Seminar		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
Cross-listed with: METEO 51N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Key Literacies	
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	United States Cultures (US)	
	Writing Across the Curriculum	
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Integrative Thinking	
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	

Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Cross-listed with: PPEM 170N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
General Education: Arts (GA) General Education: Humanities (GH) General Education: Quantification (GQ) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Cross-listed with: WMNST 207N Bachelor of Arts: Arts Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts United States Cultures (US) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 110 or ART 111 Enforced Concurrent at Enrollment: ART 110 or ART 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 230 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 230 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 240	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 240	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 240 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/

Enforced Prerequisite at Enrollment: ART 240 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 250 or Permission of Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166 and ART 265 and ART 266	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166 and ART 265 and ART 266 and ART 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 280 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 280 or permission of program or permission of the instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 110S and ART 111 and ART 290 and successful portfolio review	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Cross-listed with: ARTH 409 Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 122Y or Permission of the Instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 220 or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 230 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 230 or ART 280 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: (ART 110 and ART 111) or Permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 230 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 240 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 110 and ART 111 and ARTH 111 and ARTH 112 and enrollment in the ARTBA_BA, ARBFA_BFA, A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 350 or Permission of Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166 and ART 265 and ART 266 and ART 365 and ART 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 240 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166 and ART 168	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 165 and ART 166 and ART 265 and ART 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: Fifth semester standing or above	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 280 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: ART 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Enforced Prerequisite at Enrollment: Permission of Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/art/
Bachelor of Arts: Arts Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Corequisite at Enrollment: AED 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/

Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: 5th semester-standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED_BS major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED_BS Major or Permission of Instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 401. Enforced Concurrent at Enrollment: AED 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: Admission to Teacher Preparation Program and successful completion of all required courses in the r	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED_BS majors only or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 489 Enforced Corequisite at Enrollment: AED 495B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 489 Enforced Corequisite at Enrollment: AED 495A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 489 Enforced Concurrent at Enrollment: AED 495D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 489 Enforced Concurrent at Enrollment: AED 495C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Enforced Prerequisite at Enrollment: AED 489	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aed/
Bachelor of Arts: Arts First-Year Seminar General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts Bachelor of Arts: Humanities Bachelor of Arts: World Cultures General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/

Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Arts (GA)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: GEOSC 107N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Arts (GA)	
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	Honors	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	Honors	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 115N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	

Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ASIA 215		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: Arts	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Enforced Prerequisite at Enrollment: ENGL 15		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: ENGL 15		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Cross-listed with: ENGL 224N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 225N, WMNST 225N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Cross-listed with: PHOTO 201		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Honors	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	

Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: HIST 292N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AMST 307N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: Arts	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AMST 308N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	Bachelor of Arts: Arts	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	

Bachelor of Arts: Arts International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Cross-listed with: AFR 335 Bachelor of Arts: Arts Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: Fourth-semester standing and 6 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Cross-listed with: ART 409 Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: ARTH 100 or ARTH 120 or ARTH 315 or ARTH 320 or ARTH 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
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Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
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Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Enforced Prerequisite at Enrollment: 3 credits of ARTH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/

Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
Bachelor of Arts: Arts International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/arth/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
Enforced Prerequisite at Enrollment: A-I 100 Enforced Concurrent at Enrollment: A-I 370 and (DS 310 or CMPSC 448 or CMPSC 445)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
Enforced Prerequisite at Enrollment: A-I 100 and CMPSC 132 and (STAT 200 or DS 200) and (CMPSC 360 or Math 311W) Enforced Concur	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
Enforced Prerequisite at Enrollment: A-I 370 and STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/a-i/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aima/
Enforced Prerequisite at Enrollment: AIMA 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aima/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
Prerequisite: ARTSA301 , ARTSA495A , MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
Prerequisite: 7th semester standing and ARTSA301 , ARTSA401 , MKTG 301 , ACCTG211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
Prerequisite: ARTSA 301, ARTSA 401, ARTSA 403 CONCURRENT: ARTSA 402W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
Prerequisite: ARTSA301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
Prerequisite: ARTSA301 , ARTSA401 , ARTSA495A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/artsa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Bachelor of Arts: Arts Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: DART 100 and AAART_PMAJ major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/

Cross-listed with: LHR 160N	Bachelor of Arts: Arts Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Cross-listed with: ENGL 193N	General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA)	General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
General Education: Arts (GA)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: Third-semester standing		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: Third-semester standing		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: 4th semester standing		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: AA 100		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Enforced Prerequisite at Enrollment: AA 323		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Honors		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/aa/
Cross-listed with: AMST 160N	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/aas/
Cross-listed with: RLST 3	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: CMLIT 4	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	International Cultures (IL)	
	First-Year Seminar	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: World Cultures		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: RLST 103		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Cross-listed with: RLST 104		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: World Cultures		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Health and Wellness (GHW)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: RLST 109H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	

Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 172, JAPNS 172	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 174	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 175	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 176	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 177	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: RLST 181	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 182	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 183	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 186, JST 186	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 187	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 188	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/

Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: ARTH 215 Bachelor of Arts: Arts Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 100; ASIA 101; ASIA 102; ASIA 103; ASIA 104; ASIA 172; ASIA 174; ASIA 175; ASIA 197; JAPNS 120; JAPNS 121; CHN	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ASIA 100; ASIA 100Z; ASIA 101N; ASIA 102; ASIA 103; ASIA 104; ASIA 172; ASIA 174; ASIA 175; ASIA 183; ASIA 184; ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 100; ASIA 101; ASIA 102; ASIA 103; ASIA 104; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ASIA 003; ASIA 083S; ASIA 100; ASIA 100Z; ASIA 101N; ASIA 102; ASIA 103; ASIA 104; ASIA 105; ASIA 106; ASIA 120Y; AS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: 3 credits in literature or related field appropriate to this course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ASIA 3; ASIA 100; ASIA 100H; ASIA 101N; ASIA 102; ASIA 103; ASIA 104; ASIA 105; ASIA 106N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: CHNS 402; JAPN 402; KOR 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; ASIA 183; CMLIT 4; HIST 175; CHNS 120; CHNS 121; HIST 183; 5th Seme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 4; ASIA 100; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 3; ASIA 100; ASIA 104; ASIA 175; ASIA 181; HIST 175; CHNS 120; CHNS 121; ENGL 15; RLST 3; RLST 181; 5th Semes	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ENGL 15; ASIA 3; ASIA 100; ASIA 104; ASIA 175; ASIA 181; HIST 175; CHNS 120; CHNS 121; RLST 3; RLST 181; 5th Seme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: ENGL 428 Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: JAPNS 120; JAPNS 121; ASIA 100; ASIA 101; ASIA 102; ASIA 105; ASIA 172; ASIA 175; ASIA 185; HIST 172; HIST 175; HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: JAPNS 431 Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 104; ASIA 172; ASIA 174; ASIA 175; ASIA 185; CMLIT 4; HIST 172; HIST 174; H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 104; ASIA 172; ASIA 174; ASIA 175; CMLIT 4; HIST 172; HIST 174; HIST 175; J	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Enforced Prerequisite at Enrollment: ARTH 100 or ARTH 120 or ARTH 315 or ARTH 320 or ARTH 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisites: Three credits in JST, HIST, or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: Two lower-level courses in ASIA, HIST, or RLST; or fifth-semester standing.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: PLSC 465Y International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: PL SC003 , PL SC014 , PL SC022 or ASIA 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: 5th semester standing Recommended Preparation: Introductory courses in Anthropology, Asian Studies, History, or Religions	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 172 , HIST 174 , JAPNS120 or JAPNS121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 010 , HIST 011 , HIST 172 , HIST 175 , HIST 176 , HIST 181 , or HIST 191	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: PLSC 3 or PLSC 14 or ASIA 100Z	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Cross-listed with: HIST 480 Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 172 , HIST 174 , or HIST 175	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 174	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 174 or HIST 175	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 175 or HIST 300H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Prerequisite: HIST 175 or HIST 300H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/

Cross-listed with: RLST 483 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/asia/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Prerequisite: Students who have passed ASTRO 001 or ASTRO 010 may not take this course.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Prerequisite: Students who have passed ASTRO 001 and ASTRO 010 may not take this course.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: or concurrent: ASTRO 1 or ASTRO 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Cross-listed with: CMLIT 19N Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
General Education: Natural Sciences (GN)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Cross-listed with: SCIED 116	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 1 or ASTRO 6 or ASTRO 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 1 or ASTRO 6 or ASTRO 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 1 or ASTRO 5 or ASTRO 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Cross-listed with: COMM 151N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: PHYS 212 Enforced Concurrent at Enrollment: MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 291	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 291	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: (ASTRO 1 or ASTRO 5 or ASTRO 6 or ASTRO 10) and MATH 140.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 121 or CMPSC 131 or CMPSC 204) and PHYS 212 and PHYS 213 and PHYS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 292 and MATH 230 and PHYS 212 and PHYS 213 and PHYS 214 and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: MATH 230 and ASTRO 292 Recommended Preparation: (CMPSC 121 or CMPSC 131 or CMPSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: (ASTRO 291 or (ASTRO 401 and ASTRO 402W)) and (ASTRO 21 or CMPSC 121 or CMPSC 131 or CI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 292	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: MATH 230 and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: PHYS 212 and PHYS 213 and PHYS 214 and (MATH 230 or MATH 231) and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: PHYS 212 and PHYS 213 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/

Enforced Prerequisite at Enrollment: ASTRO 292	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 291 or ASTRO 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: ASTRO 292 and PHYS 212 and PHYS 213 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Enforced Prerequisite at Enrollment: PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/astro/
Cross-listed with: KINES 135	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: 2nd Semester Standing in HHD or KINES major or KINES minor or ATHTR major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: Completion of the Athletic Training Pre-Professional Phase Application and Accompanying Observatio	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: Completion of Pre-Professional Phase Application and Accompanying Observational Experience	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 231 and ATHTR 233, Concurrent Courses: ATHTR 334	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 231 and ATHTR 233, Concurrent Courses: ATHTR 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 235 and ATHTR 334	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 335 and ATHTR 395A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 235 and ATHTR 334	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 235 and ATHTR 334	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 335 and ATHTR 395A and ATHTR 434	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 335 and ATHTR 395A and ATHTR 434	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 336 and ATHTR 495A and ATHTR 435 and ATHTR 436	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 335 and ATHTR 395A and ATHTR 434	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 336 and ATHTR 495A and ATHTR 435 and ATHTR 436	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Enforced Prerequisite at Enrollment: ATHTR 438W and ATHTR 495B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/athtr/
Prerequisite: 90 credits with at least 16 credits in the major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/besc/
Prerequisite: general psychology or general sociology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/besc/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/besc/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/besc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
First-Year Seminar General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Corequisite at Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Cross-listed with: CRIMJ 150N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/

Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Cross-listed with: PSYCH 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 161	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment BBH 101 (C or better required)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: C or better in (STAT 200 or STAT 250) and BBH 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: C or better in BBH 101 and (STAT 200 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 and BIOL 110 and PSYCH 100. Students are required to have a C or better in BBH 101 and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: C or better in either of the following BBH 101 or BBH 101H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: PSYCH 100 or CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 and (BISC 4 or BIOL 141 or BIOL 161 or PSYCH 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 and BBH 316	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 305 and (BBH 440 or HPA 440) and admission to the Global Health minor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 390A and admission to Global Health minor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 or 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: (BBH 210 or BIOL 222) and (STAT 200 or STAT 250) Students are required to have a C or better in all p	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: C or better in BBH 101 and BBH 310 and (STAT 200 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 310 and BBH 316	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 416	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 324 or BBH 325	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: (BBH 101 or BBH 101H) and (BIOL 141 or BIOL 161)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: (BBH 310 or BIOL 230W or HPA 311) and (STAT 200 or STAT 250) Students are required to have a C o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 101 and PSYCH 100 and (BIOL 141 or BIOL 161)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Recommended Preparation: BIOL 141 or PSYCH 100 or WMNST 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: WMNST 100 or WMNST 100U or WMNST 105N or WMNST 106N or WMNST 106Q or WMNST 301 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 368 and (BBH 469 or PSYCH 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BIOL 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: (BIOL 161 or KINES 203) and (STAT 250 or STAT 200) Recommended Preparation: Fifth semester stan	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 203 or PSYCH 260 or BIOL 469 or Permission of program or comparable course neurobiology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: A C or better in either of the following BBH 101H or BBH 101, Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: approval of honors thesis advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Enforced Prerequisite at Enrollment: BBH 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bbh/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: CHEM 202 or CHEM 202H or CHEM 210 or CHEM 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment or concurrent: BMB 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H Recommended preparations MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M Recommended preparations BME	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (CHEM 212 or CHEM 212H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (CHEM 210 or CHEM 210H) and (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (CHEM 212 or CHEM 212H) and (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 401 or BMB 401H or CHEM 476	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 401 or BMB 401H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced PreRequisite or concurrent at Enrollment: BMB 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BIOL 222 or BIOL 322) and (BIOL 230W or BMB 251) and CHEM 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Prerequisite: 10 credits in biochemistry and molecular biology and permission of the department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 401 or BMB 401H) and (BMB 400 or BMB 402 or BMB 402H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (MATH 141 or MATH 141B or MATH 141H) and (PHYS 212 or PHYS 212H or PHYS 251) and (CHEM 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M Recommended preparations BIO	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (MICRB 410 or VBSC 410)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 401 or BMB 401H or BMB 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (BMB 252 or MICRB 252 or BMB 252H) or (BIOL 230W or BIOL 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 202H or CHEM 210 or CHEM 210H) and (BMB 251 or MICRB 251 or BIOL 230W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 442 and (BMB 401 or BMB 401H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 442 and (MICRB 201 or MICRB 201H) Recommended Preparations (MICRB 202 or MICRB 203	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (MICRB 202 or MICRB 203)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite At Enrollment: (BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M) and (MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (CHEM 202 or CHEM 202H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite or concurrent at Enrollment: BMB 428 or CHEM 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M) and (BIOL 222 or BIOL 322) REC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 251 or BMB 251H or MICRB 251 or BIOL 230W or BIOL 230M or CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (BIOL 222 or BIOL 322)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BIOL 322 and (STAT 200 or STAT 250 or STAT 301 or STAT 401)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: MICRB 202 RECOMMENDED PREPARATIONS MICRB 202 or MICRB 203	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Enforced Prerequisite at Enrollment: BMB 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmb/
Cross-listed with: PHIL 132 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
Prerequisite: ENGL 015.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
Cross-listed with: ESC 220N, HHUM 220N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
Enforced Prerequisite at Enrollment: 5th semester-standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/

Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
Enforced Prerequisite at Enrollment: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bioet/
Prerequisite: PHIL 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bmh/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Cross-listed with: ABSM 100 First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: MATH 250 or MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 301 and [MATH 251 or (MATH 250 and MATH 252)] and (ME 300 or ME 201 or CHE 220 or EMCH 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: EMCH 210 or EMCH 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: EMCH 212 and (EMCH 210 or EMCH 213)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Concurrent at Enrollment: CE 360 or ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced prerequisites at Enrollment: BE 301 and (EMCH 210 or EMCH 213) Enforced Concurrent at Enrollment: (CE 360 or ME 320) and (I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: (BE 391 or BRS 391 or ENGL 202C) and (11 or more credits of BE) and (Seventh Semester standing o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: (BE 306 or ME 360) and (CE 360 or ME 320)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 303 or AE 308 or CE 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 305 or EE 210 or EE 211 or EE 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: EME 301 or ME 201 or ME 300 or CHE 220 Enforced Concurrent at Enrollment: BE 308 or CHE 340 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 460W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 307 or CE 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 308 or (MICRB 201 and BMB 211) Enforced Concurrent at Enrollment: BE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 307 or CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite at Enrollment: BE 307 or CE 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Enforced Prerequisite At Enrollment: 5th semester standing or higher in Schreyer Honors College and permission of BE honors advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bisc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bisc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bisc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bisc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment or concurrent: BIOL 11	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/

Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment or concurrent: BIOL 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Cross-listed with: KINES 160N Bachelor of Arts: Natural Sciences General Education: Health and Wellness (GHW) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Concurrent at Enrollment: BIOL 161 or BIOL 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 161	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Concurrent at Enrollment: BIOL 163 or BIOL 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Cross-listed with: PSYCH 169N General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H or MICRB 201 or MICRB 201H or BIOL 141 or BIOL 133 or BMB 251 or BMB	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110H or BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H Recommended preparations: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisites at Enrollment: BIOL 110H or BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H) and (CHEM 110 or CHEM 110H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/

Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or MICRB 251 or BMB 251 or BMB 251H or BME 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: STAT 250 and at least two of the following three courses: BIOL 220W and BIOL 230W and BIOL 240W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H or MICRB 201 or MICRB 201H or BMB 251 or BMB 251H or STAT 200 or STA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M and (BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 222 or E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or BIOL 230W or BIOL 230M or BIOL 240W or BIOL 240M or BMB 251 or E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 240W or BIOL 240M or BIOL 127	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 240W or BIOL 141 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BIOL 240W or BIOL 240M or BIOL 141 or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or HPA 440	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 240W or BIOL 240M or BIOL 127	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or FOR 308 or WFS 209	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H and BIOL 220W or BIOL 220M and BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or MATH 140 or MATH 140B or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Prerequisite: any 3 credit introductory course in historical geology or plant biology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 129 or BIOL 141 or BIOL 220W or BIOL 220M or BIOL 230W or BIOL 230M or BIOL 240W or BIO	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 222 or BIOL 322 or BIOL 230W or BIOL 230M or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or BIOL 230W or BIOL 230M or BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 and (AGECO 201 or BIOL 127 or BIOL 220W or BIOL 220M or BIOL 222 or BIOL 230W or B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 220W or BIOL 220M and BIOL 230W or BIOL 230M or BMB 251 or BMB 251H) or (BIOL 220W o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W and (STAT 200 or STAT 240 or STAT 250) and (MATH 111 or MATH 141 or MATH 141B or M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H) and (BIOL 220W or BIOL 220M)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M Recommended preparations BIOL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BIOL 240W or BIOL 240M or BMB 251 or BMB 251H or MICRB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M and BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H or BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or MICRB 251 or MIC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M or BIOL 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 230W or BIOL 230M or BMB 251 or BMB 251H) and (BIOL 240W or BIOL 240M)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W or BIOL 220M or BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or ENVST 200 or W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 220W or BIOL 220M) and (BIOL 222 or BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 220W or BIOL 220M and BIOL 240W or BIOL 240M) or (BIOL 220W or BIOL 220M and ENVST 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or MICRB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 240W or BME 201 or BMB 251 or BIOL 240M or BIOL 230M or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BMB 252 or BMB 252H or MICRB 252 or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: ANTH 21 or BIOL 133 or BIOL 222 or BIOL 230W or BIOL 230M or BIOL 322 or BMB 251 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: ANTH 21 or BIOL 133 or BIOL 222 or BIOL 230W or BIOL 230M or BIOL 322 or BMB 251 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M Recommended pre	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 and (BIOL 220W or BIOL 230W or BIOL 240W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: ANTH 21 or BIOL 220W or BIOL 220M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: MATH 140 or BIOL 230W or BMB 251 or BME 201. Recommended Preparation: MATH 140B or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or MICRB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/

Enforced Prerequisite at Enrollment: BIOL 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M or BMB 251 or BMB 251H or BIOL 240W or BIOL 240M or BIOL 141 or (BIC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite or concurrent at Enrollment: BIOL 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H) and (CHEM 110 or CHEM 110H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 141 or (BIOL 161 and BIOL 163) or BIOL 240W or BIOL 240M or BIOL 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 129 or BIOL 141 or (BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164) or (BIOL 240M or BIC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: (BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164) or BIOL 476 or KINES 202 or KINES 202H or AI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 141 or BIOL 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 110H. Recommended Preparation: BIOL 220W or GEOSC 40	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite At Enrollment: BIOL 110 or BIOL 110H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite At Enrollment: BIOL 110 or BIOL 110H or BIOL 110S or BIOL 220M or BIOL 220W or other life science courses or Pe	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Enforced Prerequisite at Enrollment: 7th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
Recommended Preparation BIOL 220W or BIOL 220M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biol/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: BIOL 141 or BIOL 240W and CHEM 112 and MATH 141 Enforced Concurrent at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BIOL 141 or BIOL 240W) and PHYS 212 and (MATH 250 or MATH 251) and CMPSC 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BIOL 141 or BIOL 240W) and [EMCH 210 or (EMCH 211 and EMCH 213)] and [MATH 230 or (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BIOL 141 or BIOL 240W) and CHEM 112 and [MATH 230 or (MATH 231 and MATH 232)] and MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: BME 301 and BME 303 and BME 313 Enforced Concurrent at Enrollment: BME 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (MATH 250 or MATH 251) and (BME 301 or EE 210 or EE 212 or PHYS 402)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Concurrent at Enrollment: BME 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: PHYS 212 and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: MATH 230 and MATH 251 and CMPSC 200 and EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: MATH 230 and MATH 251 and (BIOL 141 or BIOL 240W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: CHEM 112 and PHYS 211 Enforced Concurrent at Enrollment: BME 303 or ME 320 or CHE 330 or AEI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BME 313 or ME 300 or CHE 220 or PHYS 213) and (MATH 250 or MATH 251) and (BIOL 141 or BIOL 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BIOL 141 or BIOL 240W or BIOL 472) and (CMPSC 200 or CMPSC 201 or CMPSC 121)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (BIOL 141 or BIOL 240W) and CHEM 112 and (MATH 250 or MATH 251) and (BME 313 or CHE 210 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: BME 201 and BME 303 and BME 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: CHEM 112 and (BME 201 or BIOL 230W or BMB 251) and (BME 413 or BE 302 or CHE 410)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: Seventh semester standing in BME_BS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (MATSE 201 or CHEM 112) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: CHEM 112 or MATSE 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: CHEM 112 and (BME 201 or BIOL 230W or BMB 251) and PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: CHEM 112 and CHEM 113 and (CHEM 202 or CHEM 210) and EMCH 210 or (EMCH 211 and EMCH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: (ENGL 202C or BE 391) and (ECON 102 or ECON 104)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Prerequisite: BME 401 , BME 403 , BME 440 , ENGL 202C , 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 240W or BME 201 or BMB 251 or BIOL 240M or BIOL 230M or BMB 251H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/bme/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
Enforced Prerequisite at Enrollment: EET 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
Enforced Prerequisite at Enrollment: (BIOL 163 and BIOL 164 or BISC 4) BE_T 204W and BE_T 206	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
Enforced Prerequisite at Enrollment: BE_T 201 and BE_T 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/

Enforced Prerequisite at Enrollment: EET 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
Enforced Prerequisite at Enrollment: BE_T 201 Enforced Concurrent at Enrollment: IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
Enforced Prerequisite at Enrollment: BE_T 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/be_t/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brs/
Enforced Prerequisite at Enrollment: Junior standing in BRS_BS or BE_BS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brs/
Enforced Prerequisite at Enrollment: BRS 300 and (AGBM 101 or ECON 102)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
Enforced Prerequisite at Enrollment: (BMB 442 or BIOTC 459 or HORT 459 pr BIOL 459) and (MICRB 201 or MICRB 201H) and (MICRB 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
Enforced Prerequisite at Enrollment: BMB 252 or BMB 252H or MICRB 252 or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
Enforced Prerequisite at Enrollment: BMB 442 and (MICRB 201 or MICRB 201H) and (MICRB 202 or MICRB 203) and (BMB 252 or BMB 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (MICRB 202 or MICRB 203) and (BMB 251 or BMB 251H or MICRB	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/biotc/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: 3 credits in ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104) and ACCTG 211 and (SCM 200 or STAT 200 or STAT 250 or ECON 306 or IE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ACCTG 211 and (ECON 102 or ECON 104) and ENGL 15 and Concurrent: (SCM 200 or STAT 200) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ACCTG 211 and (ECON 102 or ECON 104) and ENGL 15 and Concurrent: (SCM 200 or STAT 200) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: (MGMT 301 or MGMT 301W or BA 304) Concurrent: (FIN 301 or BA 301) and (MKTG 301 or BA 303) a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ENGL 202D and MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ACCTG 211 and (BA 301 or FIN 301) and (BA 302 or SCM 301) and (BA 303 or MKTG 301) and (BA 30	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ACCTG 211 and (BA 301 or FIN 301) and (BA 302 or SCM 301) and (BA 303 or MKTG 301) and (BA 30	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 321 or BA 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 321 or BA 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 321 and BA 322 and BA 421 and FIN 301 and MGMT 301 and MKTG 301 and SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 342 or SUST 200 or CED 152	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: FIN 301 and MGMT 301 and MKTG 301 and BA 364Y and seventh-semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 321 and BA 322 and BA 420 and Permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: BA 321 and BA 322 and BA 420 and Permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
Enforced Prerequisite at Enrollment: ACCTG 211 and (ECON 102 or ECON 104) and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ba/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: (MGMT 301 or MGMT 301W or BA 304) and Enforced Prerequisite or concurrent at Enrollment: (FIN 30	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: BLAW 341 or BLAW 243	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: BLAW 341 and (FIN 301 or BA 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: (BLAW 341 or BA 241 or BA 243) and ACCTG 211 and (FIN 301 or BA 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: BLAW 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: BLAW 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Enforced Prerequisite at Enrollment: BLAW 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/blaw/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 141 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 141 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 141 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 141 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: C or better in CHE 210 and C or better in CHE 220 and MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 251 and C or better in CHE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: BMB 251 and CHEM 212 and MATH 251 and C or better in CHE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 251 and CHE 230 and C or better in CHE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATH 230 and MATH 251 and C or better in CHE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 230 and CHE 320 and (CHE 330 or CHE 350)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 210 and CHE 220 and CHE 320 and CHE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: C or better in CHE 210 Enforced Concurrent at Enrollment: CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHEM 202 or CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHEM 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: MATSE 447	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 320 and CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 210 and CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite At Enrollment: CHE 330 and CHE 350 Enforced Concurrent At Enrollment: CHE 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/

Enforced Prerequisite at Enrollment: MATH 251 and C or better in CHE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 320 Enforced Concurrent at Enrollment: CHE 330 and CHE 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 350 or BME 409 or BME 413 or BE 302 Recommended Preparation: CHE 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 350 and CHE 410 and CHE 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: CHE 230 and CHE 320 and CHE 330 and CHE 350 Enforced Concurrent at Enrollment: CHE 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/che/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Concurrent at Enrollment: CHEM 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Completion or placement beyond MATH 21.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Completion or placement of MATH 22 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Corequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Completion of or placement beyond MATH 22	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Completion of or placement beyond MATH 22	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite or Concurrent at Enrollment: CHEM 110 or CHEM 106 or CHEM 130	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 110 or CHEM 110H or CHEM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 110 or CHEM 110H or CHEM 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 111. Prerequisite or Concurrent: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 111. Prerequisite or Concurrent: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Completion or placement beyond MATH 21 or MATH 32.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 101 or CHEM 106 or CHEM 110 or CHEM 110H or CHEM 130	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H and Prerequisite or Concurrent: CHEM 212 or CHEM 212H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H and Prerequisite or Concurrent: CHEM 212 or CHEM 212H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H and Prerequisite or Concurrent: CHEM 212 or CHEM 212H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: C or better in CHEM 112 or CHEM 112H and C or better in CHEM 113 and C or better in MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Cross-listed with: ENGL 233N Bachelor of Arts: Humanities General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 112 or CHEM 112H) and CHEM 113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/

Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: 4th semester standing or higher in Chemistry	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 210 or CHEM 210H) and Prerequisite or Concurrent: (CHEM 212 or CHEM 212H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 212 or CHEM 212H) and Prerequisite or Concurrent: CHEM 450 or CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 212 Enforced Concurrent at Enrollment: CHEM 450 or CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 452 or PHYS 237 or NUCE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite or Concurrent at Enrollment: CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 112 or CHEM 112H) and (CHEM 202 or CHEM 210 or CHEM 210H) and Prerequisite or Concu	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 210 or CHEM 210H) and CHEM 310 and Prerequisite or Concurrent: CHEM 45	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 213 or CHEM 213W or CHEM 213M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: C or better in CHEM 227 and Prerequisite or Concurrent: CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 227 or CHEM 221) and CHEM 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 210 or CHEM 210H) and Prerequisite or Concurrent: (CHEM 213 or CHEM 213W or CHEM 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 213 or CHEM 213W or CHEM 213M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 212 or CHEM 212H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 227	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 227. Prerequisite or Concurrent: CHEM 440	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 212 and (CHEM 450 or CHE 220)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H and MATH 141 and (PHYS 211 or PHYS 212). Students cannot receive cr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite or Concurrent at Enrollment: CHEM 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H and (PHYS 211 or PHYS 212) and MATH 141. Recommenced Preparation:	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite or Concurrent at Enrollment: CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite or Concurrent at Enrollment: CHEM 450 or CHE 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 450 an CHEM 457 and Prerequisite or Concurrent: CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 450 or CHE 220) and CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 450 or CHE 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 212 or CHEM 212H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: (CHEM 212 or CHEM 212H) and CHEM 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: CHEM 210 or CHEM 210H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Concurrent at Enrollment: SC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chem/
Cross-listed with: HDFS 258N, SOC 258N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmas/
Enforced Prerequisite at Enrollment: CMAS 258N or HDFS 258N or SOC 258N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmas/
Recommended Preparation: CMAS 258	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmas/
Enforced Prerequisite at Enrollment: CMAS 258N or HDFS 258N or SOC 258N Enforced Concurrent at Enrollment: (CMAS 465 or HDFS 46	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmas/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/

Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 401 or EQUIVALENT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 403W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 110 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisites: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 175; ASIA 183; CMLIT 4; HIST 175; CHNS 120; CHNS 121; HIST 183; 5th Seme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: ASIA 4; ASIA 100; ASIA 102; ASIA 175; CMLIT 4; HIST 175; CHNS 120; CHNS 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: ASIA 3; ASIA 100; ASIA 104; ASIA 175; ASIA 181; HIST 175; CHNS 120; CHNS 121; ENGL 15; RLST 3; RLST 181; 5th Semes	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisites: ENGL 15; ASIA 3; ASIA 100; ASIA 104; ASIA 175; ASIA 181; HIST 175; CHNS 120; CHNS 121; RLST 3; RLST 181; 5th Seme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Prerequisite: CHNS 401 or equivalent (such as study abroad credit)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/chns/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or CAS 137H or ENGL 137H or CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/civcm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/civcm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EDSGN 100 and MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EMCH 210 or EMCH 213 Enforced Concurrent at Enrollment: GEOSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EMCH 210 or EMCH 213 Enforced Concurrent at Enrollment: IE 424 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/

Enforced Concurrent at Enrollment: CE 335 or CE 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EMCH 210 or EMCH 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 340 Enforced Concurrent at Enrollment: CE 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 340 Enforced Concurrent at Enrollment: CE 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: Fifth-semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EMCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CHEM 110 and (MATH 111 or MATH 141)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 360 and CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Prerequisite: CMPSC 200; or CMPSC 201 or CMPSC 121; or CMPSC 131 Concurrent: MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CHEM 110 and (MATH 111 or MATH 141) Recommended Preparations: CE 370: Introduction to Enviro	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 332 or AE 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: STAT 401 or IE 424	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: EDSGN 100 and (CE 332 or CE 333W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 335	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 335	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 336 and (STAT 401 or IE 424)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 432 and (CE 435 or CE 436)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 435 and (CE 436 or CE 437)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 341 Enforced Concurrent at Enrollment: CE 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 342. Enforced Concurrent at Enrollment: CE 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 340 and CE 341 and CE 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 332 or AE 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 332 or CE 333W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 332 or AE 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 333W and CE 456	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 461 Enforced concurrent at Enrollment: CE 462	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite At Enrollment: CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite At Enrollment: CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: Eighth-semester Structural Design and Construction Engineering Technology (SDCET_BS) Enforced	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Enforced Prerequisite at Enrollment: Eighth-semester Structural Design and Construction Engineering Technology (SDCET_BS) Enforced C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ce/
Prerequisite: MATH 022 , MATH 026 , EDSGN 100 or EGT 101 and EGT 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: MATH 022 , MATH 026	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: MATH 140 , Statics; Concurrent: ET 322 or EMCH 213 or MET 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: MATH 140 , Statics, Dynamics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: Statics, Strength of Materials, MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: Statics, Strength of Materials, MATH 140; Concurrent: CET 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: Statics, Strength of Materials, MATH 140; Concurrent: CET 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/

Prerequisite: CET 343 , CET 430 , CET 432	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Prerequisite: ED&G 100 , ET 200 , C E 333W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cet/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 4, RLST 4 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HIST 5 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 12N, RLST 12N Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: PHIL 15 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: RLST 44		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: RLST 44H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: JST 70, RLST 70		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
	First-Year Seminar	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: JST 90, RLST 90		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	International Cultures (IL)	
Cross-listed with: HIST 100		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	

Cross-listed with: HIST 101 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HIST 102, JST 102, RLST 102 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HIST 104 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 110, RLST 110 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 111, RLST 111 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: CMLIT 113, JST 113, RLST 113 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/

Cross-listed with: JST 120, RLST 120 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 112, RLST 121 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 122, RLST 122 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 123, RLST 123 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 124, RLST 124 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HEBR 151, JST 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HEBR 152, JST 152 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: JST 153, RLST 153 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/

Cross-listed with: JST 160, RLST 160 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HIST 180 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: HIST 194, JST 194, RLST 194 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Cross-listed with: PHIL 200 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in Classics and Ancient Mediterranean Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits of CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS or J ST or RL ST, recommended CAMS/J ST/RL ST 110 or 120; or ENGL 104.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS or 3 credits in ANTH or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS, RLST, or JST.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS or 3 credits in ANTH or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 9 credits of philosophy, including either PHIL 200 or 6 credits of philosophy at the 200 level; or 9 credits of any combination o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 9 credits of philosophy, where 3 of those credits are PHIL 200 or 6 of those credits are PHIL 200-level courses or 9 credits of a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: 3 Credits in CAMS Recommended Preparations: CAMS 20 and CAMS 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisites: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: approval by field school director	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Prerequisite: approval by field school director	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/

Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cams/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Humanities First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
First-Year Seminar General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Cross-listed with: ENGL 137H General Education: Writing/Speaking (GWS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: ENGL 137H or CAS 137H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Cross-listed with: ENGL 162N, SOC 162N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Cross-listed with: IST 170N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Humanities General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Cross-listed with: PLSC 209 Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or CAS 137H or ENGL 137H or CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Recommended Preparations: PHIL 012	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Cross-listed with: AEE 216	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or CAS 137H or ENGL 137H or CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/

Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/

Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 6 credits in CAS and 3rd semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: PLSC 1 or PLSC 7 or CAS 101N or CAS 137H or ENGL 137H or CAS 215 or CAS 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing and CAS 100 or CAS 137H or ENGL 137H or ENGL 15 or ENGL 30H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing and (CAS 137H or ENGL 137H or ENGL 15 or CAS 100)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: CAS 100 or CAS 137H or ENGL 137H or 3rd semester standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: CAS 100 or CAS 137H or ENGL 137H or ENGL 15 or ENGL 30H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: Student must be in good standing in Schreyer Honors College. CAS 201 or CAS 202 or CAS 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: 3rd Semester Standing or 6 credits of CAS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: CAS 100A or CAS 137H or ENGL 137H or CAS 138T or ENGL 138T or approved higher level speaking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cas/
United States Cultures (US) General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Concurrent at Enrollment: CSD 146	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Prerequisite: CSD 218	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/

Enforced Prerequisite at Enrollment: CSD 311 and CSD 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Prerequisite: CSD 318	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146 and CSD 331 or one of the following BIO courses: BIOL 155 or 161 or BIOL 163 or BISC 2 o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 146 and CSD 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 311 and CSD 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 300 and CSD 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 300 and (CSD 431 or CSD 442 or CSD 444 or CSD 462 or CSD 451)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment: CSD 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Prerequisite: Approval of honors thesis advisor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment CSD 442	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
Enforced Prerequisite at Enrollment CSD 433	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/csd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: SOC 20N General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: AMST 106N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/

Bachelor of Arts: Arts General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Arts Bachelor of Arts: Humanities General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: ASTRO 141N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: PSYCH 175N General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: GAME 140 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: WMNST 205 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: ENGL 15 and ENGL 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Recommended Preparation: This course, combined with the skills learned in COMM 270, 282 or LA 235N, will prepare students for the Co	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/

Cross-listed with: IST 234N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 160 and (ENGL 15 or ENGL 30H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 282 or COMM 242	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: ENGL 15 and COMM 150 Recommended Preparations: ENGL 202A or ENGL 202B or ENGL 202C or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
General Education: Quantification (GQ) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 110 or COMM 118 or COMM 150 or COMM 180 or COMM 260W or COMM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 110 or COMM 118 or COMM 180 or COMM 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: IST 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 160 and (ENGL 202A or ENGL 202B or ENGL 202C or ENGL 202D)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: Third Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 118 or COMM 190	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 118	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 118	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 118 or CAS 101N or PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 150 and COMM 242	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Cross-listed with: LA 335N General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 and Film-Video Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 and Film-Video major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 and Film-Video major or program permission	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 and Film-Video major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 or COMM 282	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 342W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: MGMT 215 or ENGR 310 or COMM 271	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/

Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: Third Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 370 or COMM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W and (COMM 370 or COMM 320)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 or COMM 251 or COMM 100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 320 or COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 283	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 or COMM 320 or MGMT 215 or ENGR 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: C or better in COMM 242 or C or better in COMM 282	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 465 or COMM 283	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100N or COMM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 315 or COMM 283W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: Select 3 credits from the following: COMM 100 or COMM 110 or COMM 118 or COMM 150 or COMM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 or COMM 110 or COMM 118 or COMM 150 or COMM 180 or COMM 251 or COMM 260V	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: (COMM 100 or COMM 110 or COMM 118 or COMM 150 or COMM 180 or COMM 251 or COMM 260\	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 or COMM 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 215 or COMM 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 320 or COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 118 and COMM 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: (COMM 320 or COMM 370) and (STAT 200 or SCM 200 or PSYCH 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 420 and COMM 421W and COMM 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 424 or COMM 473	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 320 or COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: (COMM 421W and COMM 422) or COMM 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 428A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 428A and COMM 428D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 428A and STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 428A and COMM 428D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 428A and COMM 428B and COMM 428C and COMM 428D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 242 or COMM 282 Recommended Preparations: at least 6 credits in COMM courses	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 or COMM 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 and COMM 180 or permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 232 and one of the following courses: COMM 270 or COMM 282 or LA 235N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/

Prerequisite: A previous course in Jewish Studies, Film Studies, Media Studies, Art, Music, English, or Comparative Literature.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 374	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 337 and COMM 340 and COMM 342W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 337 and COMM 340 and COMM 342W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 338 and COMM 340 and COMM 342W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 339 and COMM 340 and COMM 342W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 340 and COMM 342 and (COMM 337 or COMM 338 or COMM 339)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 241 or COMM 371	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 340 and COMM 342 and (COMM 337 or COMM 338 or COMM 339)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 340 and COMM 342 and (COMM 337 or COMM 338 or COMM 339)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 340 and COMM 342 and (COMM 337 or COMM 338 or COMM 339)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 346	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 340 and COMM 342 and (COMM 337 or COMM 338 or COMM 339)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 448	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 310 or IST 310 or COMM 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 450 or IST 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 150 or ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: Fourth Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 250 or COMM 333	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 251 Enforced Corequisite at Enrollment: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 or COMM 251.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 100 or COMM 251.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Prerequisites: COMM 100; COMM 271; LA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W or COMM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W and (COMM 242 or COMM 282)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W and (COMM 270 or COMM 374)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W and COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 370 and COMM 420 and COMM 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W and COMM 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 380 or permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 465 or COMM 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: B or better in COMM 242 or B or better in COMM 282 or COMM 320 or COMM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 380 or permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: (COMM 180 and COMM 280) or MGMT 215 or ENGR 310 or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: (COMM 180 and COMM 280) or MGMT 215 or ENGR 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 280 and COMM 380 or permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 280 and COMM 380 or permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 230W or COMM 260W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 280 and COMM 380 or permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 470A or COMM 470B or COMM 470C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/

Enforced Prerequisite at Enrollment: COMM 180	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 or COMM 271 or MGMT 215 or ENGR 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: COMM 180 and COMM 380 or permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/comm/
Enforced Prerequisite at Enrollment: 3 credits of ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cedev/
Enforced Prerequisite at Enrollment: 6 credits in RSOC or SOC or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cedev/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Cross-listed with: AG 160 General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Concurrent at Enrollment: AGBM 106 or CMPSC 203 or ERM 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: ECON 102 or RSOC 11 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Concurrent at Enrollment: CED 152	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: (ECON 102 or AGBM 101) and (GEOG 160 or GEOG 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: RSOC 11 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: (MATH 110 or MATH 140) and CED 201 and ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits of CED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Concurrent at Enrollment: CED 152	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: RSOC 11 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: CED 400N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: STAT 200 Enforced Concurrent at Enrollment: AGBM 106 or CMPSC 203	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits of CED, ERM, SOC or ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: (RSOC 11 or SOC 1) and 6 credits of CED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/

Enforced Prerequisite at Enrollment: CED 152 and CED 230		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: ECON 302 and (MATH 110 or MATH 140)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 30 or ENGL 137H or CAS 137H) and 6 credits of CED		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 137H or ENGL 30H or CAS 137H) and ECON 302		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits of CED		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: AGBM 170		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: CED 230 and CED 404		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Prerequisite: 6 credits in Environmental Economics, Resource Economics or Economics		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits in RSOC or SOC or PSYCH		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits of CED		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 6 credits of AGBM or CED		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: 7th semester standing or (18 credits of CED and 6th semester standing)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Honors		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Enforced Prerequisite at Enrollment: prior approval of program		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ced/
Prerequisite: 5th semester standing or higher		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cied/
Enforced Prerequisite at Enrollment: 5th semester standing		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cied/
Prerequisite: ENGL 015		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cied/
Cross-listed with: ADTED 470		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cied/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cied/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ASIA 4		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
Cross-listed with: PHIL 6		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	

Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Cross-listed with: ASTRO 19N	Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Cross-listed with: RLST 108	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: JST 131		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: CAMS 113, JST 113, RLST 113		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 128N, GER 128N, JST 128N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Arts	
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Cross-listed with: SC 183Q		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	General Education: Humanities (GH)	
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	Honors	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 184		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ENGL 185		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: GAME 160N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	Bachelor of Arts: Arts	
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
	International Cultures (IL)	

Cross-listed with: HIST 240Q, IT 240Q, WMNST 240Q International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: Participation in the University Scholars program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: seventh-semester standing; 18 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in the humanities or in any LTNST course, or 4th-semester proficiency in Spanish	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature or related field appropriate to this course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature or in women's studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature or folklore	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 18 credits in a foreign language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Cross-listed with: ENGL 429 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits of literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in the study of literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in the study of literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Enforced Prerequisite at Enrollment: COMM 150 or ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in the study of literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: GAME 160 , GAME 140 , or 3 credits in literature; Concurrent: GAME 160or GAME 140 if desired	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 3 credits in literature or other fields relevant to this course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: 18 credits or equivalent in the appropriate foreign language; 6 credits in literature or related field appropriate to this course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmlit/
Prerequisite: CMPSC 200 and MATSE 201 and MATSE 202 and MATH 220 and (MATH 231 or MATH 230) and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpmt/
Prerequisite: (CMPSC 101; CMPSC 121; CMPSC 131; CMPSC 201; CMPSC 202) (CMPEN 271, CMPEN 275; CMPEN 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpeh/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Concurrent at Enrollment for: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Concurrent at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Concurrent at Enrollment: CMPEN 271 and PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: (CMPEN 270 or CMPEN 271) and (CMPSC 121 or CMPSC 131 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/

Enforced Prerequisite at Enrollment: CMPEN 271 and CMPEN 275	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: (CMPEN 351 or CMPEN 472) and EE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 270 or CMPEN 271 Concurrent Courses: STAT 318 or STAT 401 or STAT 414 or MATH 414 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 271 and CMPEN 275 and (CMPSC 121 or CMPSC201) and (EE 210 or EE 211)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: (CMPEN 371 or CMPEN 471) and EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 331 or CMPEN 371	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and MATH 220 and(CMPSC 121 or CMPSC 131 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: (EE 350 or EE 353 or EE 352) and (CMPSC 121 or CMPSC 131 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 271 and (CMPSC 121 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 362 or EE 362	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 352W and CMPEN 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPEN 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: CMPSC 311 and EE 310 and EE 353 Enforced Concurrent at Enrollment: CMPSC 473 Recommended	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpen/
Enforced Prerequisite at Enrollment: EET 101 and MATH 81	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Concurrent at Enrollment: EET 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Concurrent at Enrollment: EET 105 and CMPET 117	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: CMPET 117 and CMPET 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: CMPET 211 Enforced Concurrent at Enrollment: MATH 141 or MATH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: EET 212W and CMPET 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: EET 212W and CMPET 301 and EET 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: CMPEN 271 or CMPET 117	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Concurrent at Enrollment: CMPET 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: (CMPEN 271 or CMPET 117) and (CMPEN 275 or CMPET 120)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: CMPET 355	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
Enforced Prerequisite at Enrollment: CMPET 355	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Prerequisite: 2 entrance units in mathematics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 110 or Enforced Concurrent at Enrollment: MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 121 or CMPSC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H Enforced Conc	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 140 Enforced Concurrent at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Prerequisite: 2 entrance units in mathematics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/

Enforced Prerequisite at Enrollment: CMPSC 204 or CMPSC 121 or CMPSC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 122 or CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 122 or CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 132 or CMPSC 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 102 or CMPSC 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 121 or CMPSC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: C or better in CMPSC 122 or C or better in CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Prerequisite: 3 credits of programming	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 301 and (MATH 414 or MATH 418 or STAT 414 or STAT 418 or EE 465)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: CMPSC 122 or CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisites at Enrollment: (CMPSC 122 or CMPSC 132) and (DS 220 or CMPSC 221)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: CMPSC 462 or CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: CMPSC 463	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: CMPSC 221 or CMPSC 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 or SWENG 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: CMPSC 462	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 and (CMPSC 465 or CMPSC 463) and (STAT 318 or STAT 414 or STAT 418)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312 and (CMPSC 221 or CMPSC 330)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 335 or CMPEN 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 462	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221. Enforced Concurrent at Enrollment: CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPEN 362 Enforced Concurrent at Enrollment: CMPSC 473	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 or CMPSC 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: STAT 318 and MATH 220 and (CMPSC 122 or CMPSC 132)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 220 and (DS 220 or CMPSC 430 or CMPSC 431W) and (MATH 318 or STAT 318 or MATH 414 o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 443 Recommended preparation: CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: (STAT 319 or STAT 415) and (CMPSC 122 or CMPSC 132)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: (CMPSC 121 or CMPSC 131 or CMPSC 201) and MATH 220 and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: (CMPSC 101 or CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201) and (MATH 230 or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 202 or CMPSC 121 or CMPSC 131) and MATH 220 and (MATH 230 or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 455	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 330 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 311 and MATH 220 and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312 and CMPSC 462 Enforced Concurrent at Enrollment: CMPSC 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 and CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: C or better in MATH 141 and (C or better in CMPSC 122 or C or better in CMPSC 132) and C or better	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Concurrent at Enrollment: MATH 318 or STAT 318 or STAT 414 or MATH 414 Enforced Prerequisite at Enrollment: CMPSC 462	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: (CMPSC 122 or CMPSC 132) and (CMPSC 360 or MATH 311W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 220 and (MATH 318 or STAT 318 or MATH 414 or STAT 414 or MATH 418 or STAT 418)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 360 or MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312 and CMPSC 330 and CMPSC 462 and CMPSC 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 312 and (C or better in CMPSC 330) and CMPSC 462 and CMPSC 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 311 and CMPEN 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/

Enforced Prerequisite at Enrollment: CMPSC 122 and CMPSC 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 221 and (CMPSC 311 or CMPSC 312) and (CMPSC 462 or CMPSC 465)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite At Enrollment: CMPSC 311 or CMPSC 472 or CMPSC 474 or CMPEN 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 311 and CMPSC 465; Recommended Preparation: ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: ENGL 202C and CMPSC 221 and CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 484	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: ENGL 202C and CMPSC 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: CMPSC 487W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: MATH 141 and (MATH 220 or MATH 430 or MATH 436) and (STAT 318 or STAT 319 or STAT 414 or STA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cmpsc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 200 with 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 200 with 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 200 and Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 200 and Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 200 and Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: CC 401 or CC 402 and 6th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: Prior approval of proposed assignment by instructor. CC 401 or CC 402, and 6th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
Prerequisite: Prior approval of proposed assignment by instructor and CC 200 and CC 401 or CC 402 and 6th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: limited to students selected as peer assistants or similar positions	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: B or better in (PSYCH 100 or RHS 100) and 6 additional credits in (RHS or PSYCH) Concurrent: RHS 301 or HDFS 301 Coreq	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: 3 credits in general psychology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: 6 credits in counselor education; 6 credits in psychology, sociology, or individual and family studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: CN ED401 or RHS 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: CN ED401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: CN ED401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: a minimum of 12 hours of coursework in sociology, psychology, education, or family studies.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: CN ED401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: 300-400 level Psychology, HD FS, or Education courses or permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: A minimum of 12 hours of coursework in sociology, psychology, education, or family studies.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: A minimum of 12 hours of coursework in sociology, psychology, education, or family studies.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
Prerequisite: A minimum of 12 hours of coursework in sociology, psychology, education, or family studies.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cned/

Cross-listed with: CRIM 12, SOC 12 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: CRIM 12H, SOC 12H General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: SOC 13 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: CRIM 100 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: CRIM 113 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: BBH 150N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: HIST 159 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Recommended Preparations: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: or concurrent: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 012	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: (Placement into MATH 21 Or higher) and CRIMJ 100 or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 ; Prerequisite or concurrent: CRIMJ240W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Enforced Prerequisite at Enrollment: 3 credits of SOC or CRIM or CRIMJ	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or CRIM 100 and CRIMJ210 or CRIM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisites: CRIM 12 or CRIMJ 12 or CRIMJ 100 or CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 , CRIMJ113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 012 , CRIM 013 , or SOC 005	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Enforced Prerequisite at Enrollment: (SOC 12 or CRIM 12) and CRIMJ 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Enforced Prerequisite at Enrollment: CRIMJ 12 or CRIMJ 13 or SOC 5	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ200 or PL SC001 or PL SC014 or SOC 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: SOC 12 or CRIM 12 or CRIMJ 12 or CRIM 100 or CRIMJ 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/

Prerequisites: CRIMJ 12 or SOC 12	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ012	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: CRIM 424	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: 3 credits in Criminal Justice or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 , and CRIMJ113 , and CRIMJ230 , or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 , CRIMJ113 CRIMJ230 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: 6th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or PL SC014 , or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or CRIM 100 and sixth semester standing or permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or WMNST100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ 100; CRIMJ 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisites: CRIMJ 100, CRIMJ 210 Recommended Preparations: SOC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Enforced Prerequisite at Enrollment: CRIM 12 or CRIMJ 12 or CRIMJ 100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crimj/
Cross-listed with: CRIMJ 12, SOC 12 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Cross-listed with: CRIMJ 12H, SOC 12H General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Cross-listed with: CRIMJ 100 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Cross-listed with: CRIMJ 113 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Cross-listed with: SOC 201 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/

Cross-listed with: IT 225N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 12; SOC 12 CONCURRENT: CRIM 100; CRIM 100H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 249, STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Enforced Prerequisite at Enrollment: 3 credits of SOC or CRIM or CRIMJ	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 012 , CRIM 013 , or SOC 005	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Enforced Prerequisite at Enrollment: (SOC 12 or CRIM 12) and CRIMJ 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIMJ012	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Cross-listed with: CRIMJ 424	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100 , CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100 , CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100 , CRIM 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIMJ100 or WMNST100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Enforced Prerequisite at Enrollment: SOC 12 or CRIM 12	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Enforced Prerequisite at Enrollment: SOC 207 or CRIM 250W Recommended Preparation: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Enforced Prerequisite at Enrollment: CRIM 12 or CRIMJ 12 or CRIMJ 100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisites: CRIM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisites: CRIM 480H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
Prerequisite: CRIM 250W or permission from department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/crim/
General Education: Arts (GA) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Concurrent Courses: CI 185	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: CI 280	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 2nd Semester Standing Recommended Preparation: Official Clearances Required. See: http://www.ed.psu.edu/preservice/cl	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 2nd Semester standing Recommended Preparation: EDPSY 11 or HD FS229 or C I 280 or EDPSY014 or EDTHP115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/

Prerequisites: Second semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: CI 280	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 6th Semester standing or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: fourth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: 4th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: CI 295A and EDTHP 115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: CI 185, CI 285 and one course from the list below AEE 100; AFAM 103; AFAM 431; AFAM 492; BBH 446; CED 375; CIED 44(	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: CI 280 Recommended Preparations: CI 288 and CI 388	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 7th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Recommended Preparation: Official clearances required. See: http://www.ed.psu.edu/preservice/clearance.htm; Suggested concurrent: re(	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: Admission to Middle Level Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: CI 295, EDPSY 14 Corequisites: LLED 412W; MTHED 412W; SCIED 412; SSED 412W Recommended Preparation: Official C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 7th Semester standing and CI 495A; CI 495B; Corequisites: CI 495F Recommended Preparation: Official clearances requirec	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: LLED 412W; MTHED 412W; SCIED 412; SSED 412W, CI 495C, 7th Semester standing Recommended Preparation: Grades c	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisites: 7th Semester standing; COREQUISITE: CI 495D; Recommended Preparation: Official clearances required. See: http:www.ed	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ci/
Prerequisite: 12 credits in education and teaching experience	https://bulletins.psu.edu/university-course-descriptions/undergraduate/c-s/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Enforced Prerequisite at Enrollment: (CYBER 100 or CYBER 100S) and (IST 140 or CMPSC 121 or CMPSC 131)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Enforced Prerequisite at Enrollment: CYBER 262 and SRA 221 and SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Enforced Prerequisite at Enrollment: (STAT 200 or SCM 200) and (IST 256 or IST 261 or IST 361) and CYBER 262	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Enforced Prerequisite at Enrollment: (IST 256 or IST 261 or IST 311) and CYBER 262	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Enforced Prerequisite at Enrollment: CYBER 342W and (ENGL 202C or ENGL 202D or IST 489) and 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cyber/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 222 or DANCE 230 or DANCE 231 or DANCE 240 or DANCE 241 or DANCE 261	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: Admission into THRMT_BFA major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 231 and DANCE 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 241	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 232 or DANCE 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Bachelor of Arts: Arts General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 261	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 231 or DANCE 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 231 or DANCE 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 262 and THEA 225B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 361	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 240 or DANCE 250 or DANCE 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 240 or DANCE 250 or DANCE 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or DANCE 230 or DANCE 240 or DA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: THEA 224	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 100 or THEA 100 or THEA 101N or THEA 105 or THEA 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 382	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 101N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: 3 credits in HDFS or PSYCH or EDPSY or DANCE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 232 or DANCE 331 or DANCE 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 240 or DANCE 242 or DANCE 341 or DANCE 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 240 or DANCE 341 or DANCE 342 or DANCE 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 250 or DANCE 252	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 250 or DANCE 451	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 262 or DANCE 361 or DANCE 362 or DANCE 365 or DANCE 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/

Enforced Prerequisite at Enrollment: DANCE 365 or DANCE 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: DANCE 230 or DANCE 240 or DANCE 250 or DANCE 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite at Enrollment: permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dance/
Enforced Prerequisite: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: (PSYCH 200 or STAT 200 or STAT 250 or SCM 200) and (DA 101 or DS 200) and (CMPSC 131 or CMP	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 201W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 302W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 201W Enforced Concurrent at Enrollment: (ENGL 202A or ENGL 202B or ENGL 202C or ENGL 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 302W and DA 305 and MIS 447 Enforced Concurrent at Enrollment: MGMT 409	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
Enforced Prerequisite at Enrollment: DA 475	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/da/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in CMPSC 121 or CMPSC 131 Enforced Concurrent at Enrollment: CMPSC 122 or CMPSC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in (DS 200 or STAT 200) and DS 220 and (IST 230 or CMPSC 360 or MATH 311W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: Prerequisites: (CMPSC 122 or CMPSC 132 or IST 242) and (IST 230 or CMPSC 360 or MATH 311W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in (CMPSC 122 or CMPSC 132) and (STAT/MATH 318 or STAT/MATH 414 or STAT/MATH 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisites at Enrollment: DS 220 and (STAT/MATH 318 or STAT/MATH 414 or STAT/MATH 418)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in (DS 200 or STAT 200) and (CMPSC 122 or CMPSC 132 or IST 242)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: (DS 300 or DS 435) and (DS 310 or CMPSC 448)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: DS 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisites at Enrollment: (CMPSC 122 or CMPSC 132) and (DS 220 or CMPSC 221)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisites at Enrollment: DS 220 and DS 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: DS 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in DS 220 and DS 340W Enforced Concurrent at Enrollment: DS 435 and (DS 305 or CMPS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: Data Science Major or 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: C or better in MATH 141 and DS 220 and (IST 230 or CMPSC 360 or MATH 311W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
Enforced Prerequisite at Enrollment: CMPSC 221. Enforced Concurrent at Enrollment: CMPSC 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Bachelor of Arts: Arts General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 100 or DART 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/

Enforced Prerequisite at Enrollment: DART 200 enforced Concurrent at Enrollment: ART 211Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202 or DART 203 or DART 204 or DART 205 or DART 206	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 300 and ART 211Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202 and ART 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202, and enrollment in the ARTBA_BA, ARBFA_BFA, AED_BS, DIGMD_BDES, IDS_BDES, PHO	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202 and DART 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202 and DART 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 301 Enforced Concurrent at Enrollment: ART 476	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 303 or DART 304 or DART 314 Recommended Preparation: DART 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 202 and DART 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: (ART 101 or DART 203 or DART 305) and 8 credits in DART	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 302 or DART 303 or DART 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: (DART 302 or DART 303 or DART 304 or DART 305) and 12 credits in DART and 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
Enforced Prerequisite at Enrollment: DART 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dart/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Recommended Preparations: ART 168 provides good preparation for this course but is not required.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: DIGIT100 , DIGIT110 , DIGIT210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: ART 168	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: PSYCH200 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: 3 credits of programming; 3 credits of mathematics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Concurrents: DIGIT 400 or DIGIT 494 or DIGIT 495 Recommended preparations: Students should have taken or should be taking concurre	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: DIGIT100 , DIGIT110 , DIGIT400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
Prerequisite: DIGIT100 , DIGIT110 , DIGIT400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/digit/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dmd/
Enforced Prerequisite at Enrollment: DMD 100 and 9 credits from the following list: IST 140, IST 250, COMM 230W, COMM 215, DART 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dmd/
Enforced Prerequisite at Enrollment: DMD 100 and DMD 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/dmd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
Prerequisite: EDPSY 10 or EDPSY 11 or HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
Prerequisites: 2nd Semester Standing Concurrent: EDPSY 11; HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
Prerequisites: EDPSY 10; EDPSY 11; HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ece/
First-Year Seminar General Education: Writing/Speaking (GWS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/

Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Enforced Prerequisite at Enrollment: 3 credits of SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Prerequisite: basic open water SCUBA certification and approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Prerequisite: successful completion of EM SC440 or waiver by University Dive Safety Officer based on acceptable demonstration of prac	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Prerequisite: (GEOG 365 or GEOG 485 or GEOG 489 or GEOSC 210 or GEOSC 444 or METEO 273 or EME 210 or MATSE 219 or CMPSC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emsc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Natural Sciences United States Cultures (US) General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Natural Sciences International Cultures (IL) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Recommended Preparation: MATH 22	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/

General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
United States Cultures (US) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Cross-listed with: SCIED 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisite: Prerequisite or concurrent: KINES045 or Nationally Recognized Scube Certification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisite: (ENGL 15 or CAS 100A) and (GEOSC 001 or GEOSC 020 or EARTH 002 or EARTH 100 or GEOG 30N)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisite: seventh-semester standing in the Earth major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisite: EARTH 2; EARTH 103 MATH 140; MATH 110; MATH 83; CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisites: EARTH 2 or SOILS 101 or SUST 200 or GEOG 30N or GEOSC 1; Recommended Preparation: Completion of one of the listed	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/earth/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Recommended Preparation: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Recommended Preparation: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: Placement into MATH 21 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 104 and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 106 and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104 or ECON 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/

Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and ECON 304 and fifth-semester standing and admission into Honors program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and (ECON 106 or SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 444	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 306 and (ECON 302 or ECON 315)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 304 and ECON 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 323 and (ECON 302 or ECON 304)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 333	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 304 or ECON 333	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 333	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 306 and (ECON 302 or ECON 333)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 315 or ECON 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: (ECON 302 or ECON 342) and ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 304 or ECON 351	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102. Credit can be earned from taking ECON 447 or ECON 460 but not both.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 106 and ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 and ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 and ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 306 and (ECON 302 or ECON 304)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and ECON 304 and MATH 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: SCM 200 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104) and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 302 and ECON 304 and admission into the departmental honors program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
Enforced Prerequisite at Enrollment: ECON 102 and ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/econ/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Recommended Preparations: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission into Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: seventh-semester standing in Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: sixth-semester standing in Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: Admission to ED program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Recommended Preparation: Students should be enrolled in a secondary education major or have permission of the program to register for	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Recommended Preparations: Students should be enrolled in a secondary education major or have permission of the program to register fo	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission into Elementary Education Major or Secondary Teacher Certification Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: sixth-semester standing in Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: Admission to ED program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: sixth-semester standing in Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: seventh-semester standing in Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: eight-semester standing, approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: Admission into the Secondary Education Program required and EDUC 314	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 315Y and admission into Teacher Education Programs	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 315Y and admission into Teacher Education Programs	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 315Y and admission into Teacher Education Programs	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission into Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: eighth-semester standing in Secondary Teacher Certification Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: Admission to ED program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission to teacher education	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission to Teacher Certification Program or Approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 462 or EDUC 463 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDPSY 10 or EDPSY 14 or EDTHP 115 or EDUC 100 or HDFS 129 or PSYCH 83S or PSYCH 100 or PSYCH 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: EDUC 100 or EDTHP 115S or EDPSY 10 or EDPSY 14 or EDUC 466 or Admission to ED program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: EDUC 100 or EDTHP 115S or EDPSY 10 or EDPSY 14 or EDUC 466 or EDUC 467 or Admission to ED program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisites: EDUC 468	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: admission into Elementary Education Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 320 or EDUC 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 469	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: EDUC 459	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: eight semester standing, approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/

Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: prior approval of proposed placement by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: prior approval of proposed placement by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: prior approval of proposed placement by instructor and completion of all four early childhood prerequisite courses.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
Prerequisite: permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/educ/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
Prerquisites: Two MATH/STAT courses at 100-level or above	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edmth/
Prerequisite: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
Cross-listed with: EDTHP 433	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
Prerequisite: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
Prerequisite: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edldr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Bachelor of Arts: Quantification General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Prerequisites: EDPSY 101; STAT 200 and PSYCH 200; or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Prerequisites: EDPSY 14, EDPSY 10; EDPSY 11 or Graduate Status Corequisites: SPLED 395W, SPLED 401, SPLED 425; Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Prerequisites: EDPSY 14; EDPSY 10; EDPSY 11; PSYCH 212 or Graduate Status Recommended Preparation: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Enforced Prerequisite at Enrollment: PSYCH 100 or STAT 200 or PSYCH 200 or EDPSY 101 or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Prerequisites: EDPSY 101; STAT 200 or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Enforced Prerequisite at Enrollment: CMAS 258N or HDFS 258N or SOC 258N Enforced Concurrent at Enrollment: (CMAS 465 or HDFS 46	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edpsy/
Prerequisites: 5th Semester standing or Graduate Status or Non-degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edtec/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/

Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: first-semester Penn State student in the Schreyer Honors College	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
General Education: Health and Wellness (GHW) General Education: Quantification (GQ)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: EDTHP394	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: 5th semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Cross-listed with: WMNST 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Cross-listed with: SOC 416 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisites: ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Cross-listed with: EDLDR 433	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: EDTHP234H and permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: ENGL 015	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Cross-listed with: SOC 447 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
Prerequisite: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edthp/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: [C or better in CMPEN 270 or ((C or better in CMPEN 271) and CMPEN 275)] and (CMPSC 201 or CMI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in PHYS 212 Enforced Concurrent at Enrollment: MATH 250 or MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 200 and EE 310 Enforced Concurrent at Enrollment: ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 210 or C or better in EE 315 or C or better in EET 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/

Enforced Prerequisite at Enrollment: EE 210 and (CMPSC 201 or CMPSC 121 or CMPSC 131 or CMPSC 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Concurrent at Enrollment: MATH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201) and (CMPEN 271 or CMPEN 270) Enforc	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210 and (CMPSC 201 or CMPSC 121 or CMPSC 101)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210 and (MATH 230 or MATH 232)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 210 or C or better in EE 315) and (MATH 230 or MATH 232)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210 and MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: MATH 220 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: PHYS 214 and C or better in EE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: CHEM 110 and PHYS 214 Enforced Concurrent at Enrollment: EE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 210) and MATH 220 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: MATH 250 and (EE 210 or EE 314 or EE 315)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 350 or C or better in EE 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: CMPEN 270 or CMPEN 271 Concurrent Courses: STAT 318 or STAT 401 or STAT 414 or MATH 414 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 350 or C or better in EE 312) and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Concurrent at Enrollment: EE 352 and EE 380	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 350 or EE 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Concurrent at Enrollment: EE 387	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 313W and EE 316 and EE 352 and EE 380 and seventh-semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 400 and eighth-semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 300W and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: ENGL 202C and (CAS 100A or CAS 100S) Enforced Concurrent at Enrollment: CMPEH 472 and EE 31	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: CMPEN 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 320 or EE 330 or PHYS 400 or ESC 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 320 or EE 330 or PHYS 400 or ESC 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 320 or EE 330 or PHYS 400 or ESC 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 320 or EE 330 or PHYS 400 or ESC 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 310 and C or better in EE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 330 and (EE 350 or EE 352)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: PHYS 337	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: C or better in EE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 340 or EE 341 or ESC 312 or ESC 313 or ESC 314 or MATSE 413 or PHYS 412 or PHYS 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 340 or EE 341 or ESC 312 or ESC 314 or MATSE 413 or PHYS 412 or PHYS 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 351 or EE 352 or EE 353	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and MATH 220 and(CMPSC 121 or CMPSC 131 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (EE 350 or EE 353 or EE 352) and (CMPSC 121 or CMPSC 131 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 121 or CMPSC 131) and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (EE 360 or EE 461) and (STAT 418 or MATH 418 or STAT 414 or MATH 414 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 350 or EE 352 or EE 353	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (EE 351 or EE 352 or EE 353) and (EE 360 or EE 461)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or PHYS 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or PHYS 400 or (METEO 421 and METEO 431)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 360 and C or better in EE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or METEO 436	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 350 or EE 352 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/

Enforced Prerequisite at Enrollment: PHYS 211 and EE 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 380 and (EE 351 or EE 352)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 210 or EE 314 or EE 315 or EET 310 Enforced Concurrent at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: (EE 210 or EE 211 or EE 212) and (CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 387	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 387 or EE 485	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: EE 488	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ee/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: MATH 82 or MATH 41	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Concurrent at Enrollment: MATH 81	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Concurrent at Enrollment: EET 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 105 and MATH 26	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 105 Enforced Concurrent at Enrollment: EET 114	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 114 and ENGL 15 and (MATH 22 or MATH 40 or MATH 82)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Prerequisite: EET 114 , EET 118 , ENGL 015	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 114 and EET 118	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 114 and EET 118 Enforced Concurrent at Enrollment: EET 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: CMPET 117 and CMPET 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 212W Enforced Concurrent at Enrollment: EGT 119	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Concurrent at Enrollment: MATH 140 and (PHYS 150 or PHYS 250 or PHYS 211)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 114 Enforced Concurrent at Enrollment: MATH 140 and (PHYS 150 or PHYS 211 or PHYS 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 310 or EET 311 or EE 314 Enforced Concurrent at Enrollment: MATH 141 and (PHYS 151 or PHYS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: CMPET 301 Enforced Concurrent at Enrollment: MATH 250 or MATH 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: MATH 140 and (PHYS 150 or PHYS 250 or PHYS 211)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 341 and CMPET 301 Enforced Concurrent at Enrollment: EET 315 and MATH 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 311 or EE 314 or EE 315 and Concurrent EE 310 and EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: CMPET 117 and EET 212W Enforced Concurrent at Enrollment: MATH 141 or MATH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: (EET 212W or EE 310) and EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 409	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312 and EET 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 315 and (MATH 211 or MATH 231) and MATH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: ENGL 202C and (CAS 100A or CAS 100S) Enforced Concurrent at Enrollment: EET 312 and EET 331 a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312 and EET 331 and EET 419 and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 331 and CMPET 403 Enforced Concurrent at Enrollment: MATH 220 or EET 433	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 212W and (EET 214 or EET 213W) and (EET 315 or (EET 312 and EET 331))	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: (EET 275 or CMPET 211) and (EET 315 or EET 312)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: CMPET 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: EET 341 and (EET 330 or CMPET 333) and CMPET 355 and ENGL 202C . Enforced Concurrent at Enr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/

Enforced Prerequisite at Enrollment: EET 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: MET 105 or IET 101 Enforced Corequisite at Enrollment: EGT 114	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: MET 111 Enforced Concurrent at Enrollment: MATH 83 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: MET 111 and (MATH 83 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Concurrent at Enrollment: EET 212W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EET 212W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 225	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 230 Enforced Concurrent at Enrollment: MATH 211 or MATH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: Sixth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: Seventh semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 325 and EMET 326 Enforced Concurrent at Enrollment: EMET 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 326 and (MATH 211 or MATH 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: (MATH 211 or MATH 250) Enforced Concurrent at Enrollment: EMET 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EET 275	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 330 and (PHYS 151 or PHYS 212 or PHYS 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: (EET 275 and CMPET 211 and EMET 330) or (ME 345W and ME 357)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 325 and EMET 326 Enforced Concurrent at Enrollment: EMET 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: EMET 410 and EMET 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emet/
Prerequisite: C I 295 , EDPSY014 , EDTHP115; Concurrent: SPLED444, ELEDM400 , ELEDM401A , or ELEDM402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eledm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eledm/
Enforced Prerequisite at Enrollment: Fifth-semester standing in Energy Engineering major (ENENG_BS) or Chemical Engineering (CHE_BS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Cross-listed with: MATSE 101 Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Cross-listed with: MATSE 101A Bachelor of Arts: Natural Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Bachelor of Arts: Natural Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: CHEM 112 and MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EME 301 and EGEE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EGEE 101 or EGEE 102 or CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EE 210 and (ECON 102 or ECON 104)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: FSC 401 or EGEE 302 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EGEE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: ME 201 or ME 300 or EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EME 301 and EGEE 302 and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EME 301 or CHE 220 or ME 300 or METEO 431 or EE 310 or MATSE 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EGEE 302 and EME 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: (EME 301 and EME 303) or (CHE 220 and CHE 330) or (ME 300 and ME 320) or (MATSE 401 and MAT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EGEE 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: FSC 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EGEE 302 and MATSE 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 121 or CMPSC 131) and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: Seventh-semester standing in ENENG_BS or CHE_BS and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egee/
Enforced Prerequisite at Enrollment: MATH 22 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: CHEM 112 and PHYS 212 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: (MATH 250 or MATH 251) and PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: (EME 301 or ME 300 or CHE 220) and (EME 303 or ME 320 or CHE 330)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: EBF 200 and EGEE 120 and PLSC 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: ECON 104 and EGEE 102 and EGEE 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: 7th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: 5th semester or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: GEOG 30N and CAS 100 and GEOG 432	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eme/
Enforced Prerequisite at Enrollment: ECON 102 and (MATH 22 or MATH 26 or MATH 41 or MATH 110 or MATH 140 or satisfactory perform	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: EBF 200 and EME 460 and (STAT 401 or EBF 472 or ECON 306)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: EBF 200 and EBF 301 and EME 460 and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: BLAW 243 or BA 242 or BA 243	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: ECON 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: (PHYS 211 or PHYS 250) and GEOSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: GEOSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: EBF 200 and (MATH 111 or MATH 141) and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: EBF 200 and MATH 140 and EBF 301 and (EBF 472 or STAT 200 or STAT 401 or ECON 106 or SCM 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
Enforced Prerequisite at Enrollment: (MATH 110 or MATH 140) and EBF 200 and EBF 301 and (ECON 302 or MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ebf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ennec/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Cross-listed with: SCIED 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Cross-listed with: GER 115N General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL) Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Third-semester standing or above	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Recommended Preparation: 5th semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: CHEM 110 and CMPSC 122 and MATH 140 and (MATH 141 or PHYS 211)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL) Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: EMCH 213 Enforced Concurrent at Enrollment: ENGR 350 or EMCH 407 or EMCH 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGL 202A or ENGL 202B or ENGL 202C or ENGL 202D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: EMCH 213 and (ME 201or ME 300 or EME 301) and (CMPSC 121 or CMPSC 131 or CMPSC 200 or C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 295	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 295A or ENGR 295I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 295A or ENGR 295I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: 4th semester standing. Students with no 4th semester standing need to provide evidence to the instru	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Fifth semester standing or program approval	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Three credits in ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 407 and (MGMT 215 or ENGR 310) and 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 320 and MATSE 201 and MATSE 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: (ECON 102 or ECOn 104 or ECOn 14 or MGMT 215) and (CAS 100 or CAS 138T or EMSC 100S)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104 or ECON 14) and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: (ENGR 350 or EMCH 407 or EMCH461) and ENGR 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/

Enforced Prerequisite at Enrollment: Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: EDSGN 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Fifth Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher. This course is not open to Business students.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Concurrent at Enrollment: ENGR 486	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Concurrent at Enrollment: ENGR 350 or EMCH 407 or EMCH 461 or ME 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 490W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Concurrent at Enrollment: ENGR 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 395	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 395A or ENGR 395I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
Enforced Prerequisite at Enrollment: ENGR 395A or ENGR 395I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engr/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: 3rd Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100 and 4th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: CHEM 110 and EMCH 211 and EMCH 213 and EDSGN 401 and (CMPSC 200 or CMPSC 201 or CMP	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: (EDSGN 402 or IE 312) and (EE 316 or ME 357) Enforced Concurrent at Enrollment: ENGR 490W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: (EE 316 or CMPEN 472) and (CMPSC 200 or CMPSC 201 or CMPSC 121 or CMPSC 131) and EE 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: 5th semester standing Enforced Concurrent at Enrollment: EDSGN 453	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 453	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Prerequisite: BIO E, CH E, CMPEN, E E, I E, or M E; BME 440 or E E 300W or I E 302 , I E 305 , I E 323 , I E 327 , I E 330 , I E 405 or M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100 and EDSGN 367	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EMCH 210 or EMCH 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: IE 408 or IE 419	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Enforced Prerequisite at Enrollment: EDSGN 100 and 7th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edsgn/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: MATH 81	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: EGT 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: EDSGN 100 and EGT 114	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: EGT 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/egt/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140B or MATH 140E or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140B or MATH 140E or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140B or MATH 140E or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 211 or EMCH 210H or EMCH 210) and (MATH 141 or MATH 141B or MATH 141E or MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 211 or EMCH 210H or EMCH 210) and (MATH 141 or MATH 141B or MATH 141E or MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (CHEM 110 or CHEM 110H) and (PHYS 211 or PHYS 211H) Enforced Concurrent at Enrollment: (MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (MATSE 259 and ME 360) or Concurrently enrolled in EMCH 315.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (ESC 261 or CMPSC 200 or CMPSC 201) and (EMCH 210 or EMCH 210H or EMCH 213)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: 5th Semester standing or higher and (EMCH 213 or EMCH 210 or EMCH 210H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 315 and EMCH 316) or EMCH 416	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 213 or EMCH 210H or EMCH 210) and (CMPSC 201 or CMPSC 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and (ME 370 or ESC 407 or EMCH 407)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 213 or EMCH 210 or EMCH 210H) and (CMPSC 200 or CMPSC 201 or ESC 261)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: EMCH 471	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and (CMPSC 201 or CMPSC 200 or ESC 261)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/emch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: CHEM 101 and MATH 81 and (PHYS 150 or PHYS 250H or PHYS 250 or PHYS 211 or PHYS 211H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: ESC 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: ESC 211 and ESC 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: ESC 211 and ESC 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: ESC 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: ESC 211 and ESC 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Cross-listed with: BIOET 220N, HHUM 220N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Prerequisite: or concurrent: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (CHEM 110 or CHEM 110H) and PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: MATH 220 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/

Enforced Prerequisite at Enrollment: CHEM 110 and MATH 251 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: EE 210 and (MATH 250 or MATH 251 or MATH 251H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: MATH 250 or MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (CMPSC 200 or CMPSC 201 or ESC 261) Enforced Concurrent at Enrollment: (MATH 220 or MATH 22	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: Fifth Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: ESC 409	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: ESC 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: Seventh semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210 Enforced Concurrent at Enrollment: ESC 312 or PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Concurrent at Enrollment: MATSE 400 and MATSE 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: ESC 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: PHYS 337	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: ESC 419 or ESC 314	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (MATSE 201 or ESC 414M) and Sixth Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: MATSE 259 or ESC 414 or EGEE 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 121 or CMPSC 131) and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (5th semester standing in ESC or 7th semester standing or Schreyer Honors College) and (MATH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: (5th semester standing in ESC or 7th semester standing or Schreyer Honors College) and (MATH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: EMCH 315 or ESC 414M or MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 315 or ESC 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Enforced Prerequisite at Enrollment: PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Prerequisite: PHYS 214 or ESC 312, MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Prerequisite: PHYS 214 , MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esc/
Prerequisite: 2-credit drafting course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
Prerequisite: MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
Prerequisite: EMCH 211 or ET 300 or MET 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
Prerequisite: ET 300 , EMCH 211 or MET 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
PreRequisite or concurrent: ET 322 , EMCH 213 or MET 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/et/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Concurrent at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
United States Cultures (US) General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
First-Year Seminar General Education: Writing/Speaking (GWS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Writing/Speaking (GWS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/

First-Year Seminar		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Writing/Speaking (GWS)	
	Honors	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	Honors	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	First-Year Seminar	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: JST 104		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: AMST 105		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: RLST 105N, SOC 130N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
United States Cultures (US)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	

General Education: Humanities (GH)	GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: ARTH 115N	General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH)	GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
International Cultures (IL)	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
United States Cultures (US)	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
United States Cultures (US)	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH)	GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: CMLIT 128N, GER 128N, JST 128N	Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: JST 132	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/

Cross-listed with: AMST 134	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: AMST 135	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: CAS 137H	General Education: Writing/Speaking (GWS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 137H or CAS 137H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: AFAM 139	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH)	Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: AFAM 141N, INART 141N	United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: SC 142N	General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH)	GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: HIST 162N	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/

Cross-listed with: CAS 162N, SOC 162N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
General Education: Humanities (GH)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: LHR 165N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: AMST 170N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
United States Cultures (US)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Soc Resp and Ethic Reason	

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: PLSC 183N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: CMLIT 184		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: CMLIT 185		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: INART 203Q		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	Honors	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AA 193N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: WMNST 194		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	United States Cultures (US)	
	First-Year Seminar	
	General Education: Humanities (GH)	

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Honors		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Writing Across the Curriculum	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	Honors	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: 4th Semester standing and one of the following courses: ENGL 15 or ENGL 15A or ENGL 15S or ENG		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: 4th semester standing and one of the following courses: ENGL 15 or ENGL 15A or ENGL 15S or ENGI		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
General Education: Humanities (GH)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: MUSIC 209N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Writing Across the Curriculum		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	Writing Across the Curriculum	

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	Writing Across the Curriculum	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ARTH 224N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: ARTH 225N, WMNST 225N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: LTNST 226		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
Cross-listed with: WMNST 227		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
United States Cultures (US)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
General Education: Humanities (GH)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
	Writing Across the Curriculum	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	

Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: CHEM 233N Bachelor of Arts: Humanities General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: AFAM 235 Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: WMNST 245 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/

Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 281	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 212 and (ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 213 and (ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 214 and [ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: (ENGL 212 or ENGL 215) and [ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 50 or ENVST 100N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: ASIA 428 Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Cross-listed with: CMLIT 429 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/

Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: Prerequisites: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: 7th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Enforced Prerequisite at Enrollment: 7th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/engl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
Concurrent: ESL 015	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
Prerequisite: a grade of C or higher required in ESL 004	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
Prerequisite: score below 150 on the American English Oral Communicative Proficiency Test (AEOCPT)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
Prerequisite: score of 150-199 on the American English Oral Communicative Proficiency Test (AEOCPT) or a grade of A- required in ESL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
Prerequisite: score of 200-249 on the American English Oral Communicative Proficiency Test (AEOCPT) or a grade of A- required in ESL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/esl/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
Enforced Prerequisite at Enrollment: IST 210 and IST 220 and IST 256	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
Enforced Prerequisite at Enrollment: IST 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
Enforced Prerequisite at Enrollment: IST 210 and IST 242	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
Enforced Prerequisite at Enrollment: IST 220 and IST 242 and ETI 461	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/eti/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: 3 credits from AGECO or AGRO or ANSC or ANTH or BIOL or BISC or CHEM or ENT or ERM or FOR (	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: ENT 313	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: ENT 313	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Concurrent at Enrollment: TURF 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Recommended Preparation: ENT 313 provides knowledge of insect biology that will help students understand the research concepts discu	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110 and BIOL 220W and BIOL 230W and BIOL 240W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110 Recommended Preparations: ENGL 15 and (CHEM 110 or CHEM 130)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110 and BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: ENT 313	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: ENT 313 or (BIOL 11 and BIOL 12) or BIOL 110 or BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: Must take two or more of the following - ENT 313 or PPEM 405 or PPEM 318 or HORT 238	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H) and (BIOL 230W or BIOL 230M or BIOL 220W or BIOL 220M)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ent/
Prerequisite: ACCTG211 , ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: ENTR 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: (BA 241 and BA 242) or BA 243 or BLAW 243 and ENTR 320 and FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: ENTR 320 , MIS 204 , MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: ENTR 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: ENTR 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/entr/
Prerequisite: C E 370 or graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
Prerequisite: ENVE 417 ; and STAT 301 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
Prerequisite: C E 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
Prerequisite: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
Prerequisite: C E 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/enve/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: 3 credits in BIOL and CHEM 111 and (MATH 110 or MATH 140) Enforced Concurrent at Enrollment: PH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: CHEM 110. Enforced Concurrent at Enrollment: PHYS 211 or PHYS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Concurrent at Enrollment: PHYS 250 or PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (AGBM 101 or ECON 102 or ECON 104) and 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: ECON 102 or AGBM 101 Enforced Concurrent at Enrollment: ERM 151 or CED 152 or EBF 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (MATH 111 or MATH 141) and (STAT 200 or STAT 240 or STAT 250) Enforced Concurrent at Enrollmen	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Concurrent at Enrollment: ERM 300 and ERM 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Concurrent at Enrollment: ERM 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (BIOL 110 or FOR 308) and 5th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: BIOL 110 and CHEM 110 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: CHEM 111 and CHEM 112 and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: BIOL 110 and BIOL 220W and CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (CHEM 110 and CHEM 111 and CHEM 112) or CHEM 202 or CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: ASM 327 or BE 307 or CE 360 or CE 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: MATH 22 or MATH 26 or MATH 41 or MATH 110 or MATH 140 Enforced Concurrent at Enrollment: ASM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (MATH 22 or MATH 110 or MATH 140) and (AGBM 101 or ECON 102) Recommended Preparation: CEI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: (ERM 300 or WFS 209N or BE 307) and seventh semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: Permission of the Environmental Resource Management program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of the ERM honors advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Enforced Prerequisite at Enrollment: Prior approval of assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/erm/
Prerequisite: BIOL 110, CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
Prerequisite: BIOL 402W ; CHEM 202 ; GEOSC 300/400 level; ENGL 202C ; any PL SC or ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
Prerequisite: 3 credits of 400-level coursework; Junior or senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
Prerequisite: 3 credits of 400-level coursework; Junior or senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
Prerequisite: 3 credits of 400-level coursework; Junior or senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envsc/
Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: BIOL 110 , ENGL 015 , ENVST100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: approval of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisites INTSP 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: ENVST200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Enforced Prerequisite at Enrollment: ENGL 50 or ENVST 100N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: ENGL 202 CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: (ECON 102; ECON 104) and (STAT 200; STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: 6th semester standing and 6 credits in ENVST or related disciplines	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Prerequisite: 6th semester standing, approval of program, and 6 credits in ENVST or related disciplines	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envst/
Enforced Prerequisite at Enrollment: CHEM 110 and PHYS 211 and MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite or Concurrent: MNPR 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: GEOSC 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment or Concurrent: MNPR 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: CHEM 110 and CHEM 112 and MATH 141 and MNPR 301 and (EME 303 or CE 360)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: MATH 141 and PHYS 212 and CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: CHEM 110 and ENVSE 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: ENVSE 427 and ENVSE 404W and 7th semester standing or higher in Environmental Systems Enginee	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: Seventh semester standing or higher in Environmental Systems Engineering (ENVSE_BS) major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/envse/
Enforced Prerequisite at Enrollment: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 30H or ESL 15 or ENGL 137H or CAS 137H) and ACCTG 211 and (ECON 102 or E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: (ENGL 15 or ENGL 30H or ESL 15 or ENGL 137H or CAS 137H) and ACCTG 211 and (ECON 102 or E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: ACCTG 211 and ECON 102 and (MATH 110 or MATH 140) and (SCM 200 or STAT 200) and Concurren	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: third-semester standing or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 305W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 305W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: BA 301 or FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 305W and FIN 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301 or equivalent approved course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/

Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite At Enrollment: FIN 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 420 or approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301 and FIN 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 330 and (ACCTG 310 or ACCTG 405)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: SCM 200 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 305W or RM 303 or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 461 or approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 305W or RM 303 or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 302 and FIN 420 and senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: ECON 102 and PSYCH 100 and (PSYCH 200 or SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Prerequisite: FIN 301, FIN 420; permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 301 and FIN 420 or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: FIN 330 and FIN 420 and FIN 430 and FIN 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fin/
Prerequisite: FINSV400 , FINSV411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/finsv/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/cap/
Cross-listed with: STS 105 Bachelor of Arts: Social and Behavioral Sciences General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Cross-listed with: PHIL 134 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Recommended Preparation: Intended for students enrolled in or considering the Food Science major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Concurrent at Enrollment: FDSC 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Cross-listed with: ANSC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Concurrent at Enrollment: ANSC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 or FDSC 201 or CHEM 202 Enforced Concurrent at Enrollment: BMB 211 and BMB 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: Junior or senior standing in food science. Permission of	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: STAT 250 or STAT 240 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: STAT 250 and Junior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: MATH 110 and PHYS 250 Enforced Concurrent at Enrollment: FDSC 200 and FDSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: BMB 211 Enforced Concurrent at Enrollment: FDSC 200 or FDSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: BMB 211 and 7th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: MICRB 201 Enforced Concurrent at Enrollment: FDSC 200 and FDSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/

Enforced Prerequisite at Enrollment: MICRB 202 Enforced Concurrent at Enrollment: FDSC 200 and FDSC 201 and FDSC 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201 and BMB 212 and FDSC 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201 and FDSC 408 and STAT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201. And at least 2 of the following 400 level courses: FDSC 400 or FDSC 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201. And at least 2 of the following 400 level courses: FDSC 400 or FDSC 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201. And at least 2 of the following 400 level courses: FDSC 400 or FDSC 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201 and 6 credits from FDSC 400, FDSC 404. FDSC 405, FDSC 406, FDSC 408,	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Cross-listed with: AG 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and FDSC 201 and 6 credits from FDSC 400, FDSC 404, FDSC 405, FDSC 406, FDSC 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: FDSC 200 and Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of the Food Science honors ad	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsc/
Enforced Prerequisite at Enrollment: C or better in HM 101 or C or better in AGBM 170 or C or better in AGBM 170N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsys/
Enforced Prerequisite at Enrollment: AGBM 170	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsys/
Prerequisite: FDSYS 495	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsys/
Enforced Prerequisite at Enrollment: Instructor Permission	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fdsys/
General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnar/
Enforced Prerequisite at Enrollment: FRNAR 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnar/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 100 and CHEM 110 and CHEM 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 411 and FRNSC 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 210 and (STAT 200 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 210 and (STAT 200 or STAT 250) and (PHYS 212 or PHYS 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 210 and (STAT 200 or STAT 250) and (PHYS 212 or PHYS 251) Enforced Corequisite at Enrolln	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC major and FRNSC 210 and (BIOL 230W or MICRB 202 or BMB 251 or BIOL 240W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 210 and FRNSC 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: (BIOL 222 or BIOL 322) and (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: BMB 401 and BMB 442 and FRNSC 413 and FRNSC 420 Enforced Corequisite at Enrollment: FRNSC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 210) and CHEM 227	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: CHEM 213 and CHEM 227 and (FRNSC 411 or CHEM 431W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 410 and (FRNSC 411 or FRNSC 413)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite At Enrollment: FRNSC 411 or FRNSC 413 Recommended Preparation: FRNSC 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Concurrent at Enrollment: FRNSC 421W or FRNSC 427W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 411 and FRNSC 413 and FRNSC 415W or Concurrent: FRNSC 421W and FRNSC 427W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
Enforced Prerequisite at Enrollment: FRNSC 411 and FRNSC 413 and FRNSC 415W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/frnsc/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: FORT 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Concurrent at Enrollment: MATH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: FORT 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/

Enforced Concurrent at Enrollment: FORT 110 and FORT 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Concurrent at Enrollment: FORT 110 and FORT 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: Second-year standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: GEOG 160 and GEOG 161	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: Second-year standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: FORT 110 and FORT 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: GEOG 160 and GEOG 161	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fort/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Cross-listed with: WFS 150S First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Recommended Preparations: 3 credits of science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 203 or FORT 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 203 or FORT 150 Enforced Concurrent at Enrollment: (FOR 255 or FORT 260 or WILDL 211) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: 3 credits in BIOL or BISC or FOR or FORT or HORT or PLANT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Concurrent at Enrollment: FOR 203 or FORT 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 203 or FORT 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: C or higher in STAT 200 or STAT 240 or STAT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: SOILS 101 or 3 credits of CHEM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: Fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: 6 credits in BIOL or BISC or FOR or FORT or HORT or PLANT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: BIOL 110 or BIOL 127	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 127) and (BIOL 220W or FOR 308) and 7th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: [C or higher in FOR 266 or (C or higher in FORT 105 and FORT 110)] and FOR 308	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: BIOL 220W or FOR 308 or WFS 209	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: (FOR 203 or FORT 150) and [FOR 266 or (FORT 105 and FORT 110)]	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: AGBM 101 or ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: (BIOL 220W or FOR 308) and 7th semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 203 or FORT 150 Recommended Preparation: WFS 310 or FOR 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Prerequisite: 6 credits of social and behavioral sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 255 or FORT 260 or GEOG 160 or GEOG 260 or WILDL 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: BIOL 110 or FOR 203 Enforced Concurrent at Enrollment: BIOL 220W or FOR 308 Recommended Pre	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: (FOR 255 or FORT 260 or WILDL 211) and FOR 421 and FOR 440	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: 3 credits in SOILS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Concurrent at Enrollment: FOR 470	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FOR 308 and 3 credits in SOILS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: FORT 240 or 3 credits in SOILS Enforced Concurrent at Enrollment: FOR 470	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Prerequisite: 3 credits of social or behavioral science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/

Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: Permission of the Forest Ecosystem Management Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: Enrollment in the Schreyer Honors College and permission of a Forest Ecosystem Management honor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Enforced Prerequisite at Enrollment: Approval of proposed assignment by instructor prior to registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/for/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 051 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities International Cultures (IL) First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit) Bachelor of Arts: Humanities Exceeds 12th Unit of World Language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit) Exceeds 12th Unit of World Language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 003 or FR 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Cross-listed with: WMNST 270 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 199	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 202 or FR 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/

Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 and FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 316	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisites: FR 331; or FR 332; or FR 332H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 351 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 351 or FR 352 or FR 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 332 or FR 351 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 351 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 332 or FR 351 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 351 or FR 332 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 331 or FR 351 or FR 332 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 332 or FR 352	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: (COMM 250 or COMM 150) and (FR 331 or FR 332 or FR 351 or FR 352)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 351 and FR 352 or COMM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Prerequisite: FR 201 , FR 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fr/
Enforced Prerequisite at Enrollment: CHEM 112 and PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 210) and EGEE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
Enforced Prerequisite at Enrollment: CHEM 202 or CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/fsc/
Cross-listed with: COMM 190 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Cross-listed with: CMLIT 191N Bachelor of Arts: Arts Bachelor of Arts: Humanities United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Enforced Prerequisite at Enrollment: MATH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisites: MATH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: GAME 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: 3 credits of programming; 3 credits of mathematics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: GAME 250 , CMPSC122 , and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: GAME 160 , GAME 140 , or 3 credits in literature; Concurrent: GAME 160or GAME 140 if desired	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: 3 credits of 400 level GAME classes	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/
Prerequisite: 3 credits of GAME courses. Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/game/

Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Natural Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/

Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: or concurrent GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Recommended Preparations: (ENGL 15 or ENGL 30H or ENGL 137 or CAS 137 or ESL 15) or EMSC 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Recommended Preparation: (ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H or ESL 15) or EMSC 100S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 , GEOG 020 , GEOG 030 , Prerequisite or concurrent: GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 210 or GEOG 10; or METEO 3; or METEO 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 or METEO003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 or BIOL 110 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisites: GEOG 210 or GEOG 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 20 or GEOG 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisites: GEOG 220 or GEOG 20 or GEOG 2N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 220 or GEOG 20 or GEOG 2N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 220 or GEOG 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 230 or GEOG 30	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: junior or senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 210 and GEOG 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 210 and GEOG 230 Recommended Preparations: Successful completion of or concurrent enrollment in GEOG 340 is s	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 260 or GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: STAT 200 and 6 credits in social science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/

Prerequisite: GEOG 260 or GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
RECOMMENDED PREPARATIONS: 3 credits in geography	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 , GEOG 314 ; or BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 , GEOG 314 ; or BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 110 or METEO003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 210 or EARTH 2 or EARTH 103N or EARTH 303 or METEO 101 or METEO 201 Recommended Preparation: Basics of c	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: BIOL 110; BIOL 220; GEOG 314; FOR 308; WFS 209; LARCH 241	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 362	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 120 , GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 020; GEOG 220; SOC 001; R SOC 011 and GEOG 361; GEOG 362; GEOG 363; GEOG 364; SOC 207; CED 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 326; GEOG 126; or ECON 102; or ECON 104; or EBF 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 126 ; ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisites: (GEOG 220 or GEOG 20 or GEOG 2N or WMNST 100) and (C or higher in ENGL 15 or ENGL 30H or ENGL 137H or CAS 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: (GEOG 220 or GEOG 20 or GEOG 2N) and (C or higher in ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H or ESL 15)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 020 , GEOG 126 , or GEOG 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 or GEOG 020 or GEOG 030 or GEOG 040 or GEOG 130 or permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: (GEOG 10; or GEOG 210; or GEOG 30; or GEOG 230) ; or 6 credits natural science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Enforced Prerequisite at Enrollment: EBF 200 and EGEE 120 and PLSC 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: 6 credits in social sciences or humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: upper-division standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: (GEOG 230 or GEOG 30N or EGEE 101 or EBF 200) and C or higher in an English composition course (ENGL 15; ENGL 30H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: EARTH002 , GEOG 010 or METEO003 ; GEOG 030	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: 6 credits in geography, humanities, or social sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 210 and GEOG 230 and GEOG 340 and GEOG 344 Recommended Preparations: As this is a capstone course, additio	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 010 or GEOG 020 or GEOG 030 or GEOG 123 or GEOG 124 or GEOG 130 or EARTH105 or AFR 105 or AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 220 Recommended Preparations: Successful completion of GEOG 260 and GEOG 320 are recommended but not requ	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 363 or GEOG 483 or SOILS 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 361 or GEOG 362 or GEOG 363	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 361 or GEOG 362 or GEOG 363	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: Recommended Preparations: (GEOG 365 and GEOG 464) or prior exposure to R programming language Prerequisite: GEOG	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 363	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 364	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 363	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 361	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 363	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 030 , EGEE 102 , EME 444	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 160 , GEOG 482 , or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 482 or equivalent professional experience	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 362 or GEOG 480 ; GEOG 160 or GEOG 482 ; or equivalent professional experience	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: admission to the Master of GIS program or Certificate Program in GIS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 482	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 483	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: Permission of instructor or admission to the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 484	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: Enrollment in Post-baccalaureate Certificate in GIS (GISC_PCT), Master of GIS (GIS_MGIS), or Master of Science in Spatial D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 485	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: sophomore standing; 6 credits of social or environmental science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: GEOG 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/

Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
Prerequisite: prior approval of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geog/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Cross-listed with: ARTH 107N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: Natural Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: MATH 26	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 110, third-semester standing. Prerequisite or concurrent: GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1, MATH 140, third-semester standing. Prerequisite or concurrent: CHEM 113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 or permission of program. Prerequisite or concurrent: PHYS 211, MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: BIOL 110; GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Recommended Preparation: 3RD SEMESTER STANDING	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 or GEOSC 20; Recommended Preparation: GEOSC 201 and MATH 140 (or MATH 110 as appropriate)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisites: CHEM 112 Concurrents: GEOSC 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1; fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 001 or EARTH 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: fourth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 112; GEOSC 1, GEOSC 20, GEOSC 40, EARTH 2, BIOL 110 or MICRB 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 112; EARTH 2 or GEOSC 1, GEOSC 20, GEOSC 40	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 110 , CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: one of the following: CE 475, CHEM 402, GEOSC 202, GEOSC 412, SOILS 419	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/

Prerequisite: CHEM 110 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 112, GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 110, CHEM 112, CHEM 111, CHEM 113; GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Enforced Prerequisite at Enrollment: CHEM 112 and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 110 , CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: any 3 credit introductory course in historical geology or plant biology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: ENGL 15, GEOSC 1, GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: fourth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: MATH 140 or MATH 110, Introductory Earth Science or Geoscience class, Introductory Statistics class (e.g. STAT 200, or STA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1 or GEOSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: CHEM 112; GEOSC 1, GEOSC 20, or GEOSC 71; MATH 140 or MATH 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisites: GEOSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: or concurrent: GEOSC 203, GEOSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 1; fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 310, GEOSC 465. Prerequisite or concurrent: GEOSC 472A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Enforced Prerequisite at Enrollment: (BIOL 110 or BIOL 110H) and (CHEM 110 or CHEM 110H)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 439	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisites: MATH 140 and PHYS 211; Recommended Preparation: GEOSC 203	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisites: GEOSC 203 or GEOSC 454 Recommended Preparations: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: PHYS 211 , PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: MATH 140 and MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: MATH 140 , MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: GEOSC 203, GEOSC 310, PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/geosc/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 011	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 051 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: ENGR 115N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	General Education: Humanities (GH)	
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: HIST 195, JST 195		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: CMLIT 128N, ENGL 128N, JST 128N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	Bachelor of Arts: Arts	
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: RUS 143		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
International Cultures (IL)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	General Education: Arts (GA)	
	General Education: Humanities (GH)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Cross-listed with: ENGR 197E		https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
	General Education: Humanities (GH)	
	General Education: Natural Sciences (GN)	
	General Education - Integrative: Interdomain	

Prerequisite: GER 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 003 or GER 008	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 201 or GER 208Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 301 or GER 302W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 301 or GER 302W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 301 or GER 302W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 301 and GER 302W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 301, GER 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: or concurrent: GER 401Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: or concurrent: GER 401Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: or concurrent: GER 401Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite or Concurrent: GER 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite or Concurrent: GER 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: or concurrent: GER 401Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite or Concurrent: GER 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: GER 310 or COMM 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Prerequisite: any 300-level course in German	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ger/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
Cross-listed with: AFR 310, APLNG 310 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
Prerequisite: GLIS 101, GLIS 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/

Prerequisite: PLSC 3 or PLSC 14 or ASIA 100Z	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/glis/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: GD 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 300 and GD 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 300 and GD 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Concurrent at Enrollment: GD307	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: GD 115N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: GD 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: GD 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: GD 200 and GD 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Enforced Prerequisite at Enrollment: C or better in GD 407	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/gd/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Bachelor of Arts: World Language (All) Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Prerequisite: GREEK 101 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/

Prerequisite: GREEK 102 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Prerequisites: GREEK 203 Or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Prerequisites: GREEK 203 Or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Prerequisites: GREEK 203 Or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Prerequisites: GREEK 203 Or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/greek/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
Enforced Prerequisite at Enrollment: HHD 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
Enforced Prerequisite at Enrollment: (BIOL 161 or KINES 203) and (STAT 250 or STAT 200) Recommended Preparation: Fifth semester stan	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
International Cultures (IL) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhd/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hlhed/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hlhed/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hlhed/
Prerequisite: permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hlhed/
Prerequisite: ENGL 015.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
Cross-listed with: BIOET 220N, ESC 220N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hhum/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Corequisite at Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Recommended Preparation: HPA 101 and STAT 100 or STAT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: ECON 102 or HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 101 or ECON 102 or PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: ECON 102 and HPA 101 and PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: ECON 102 and HPA 101 and PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: BBH 101 or BISC 4 or BIOL 141 or BIOL 161 Concurrent Courses: HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: (HPA 211 or ACCTG 211) and HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W and HPA 310 and HPA 332 and HPA 390W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W and HPA 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W or HPA 311 or HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W and HPA 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: (BBH 310 or BIOL 230W or HPA 311) and (STAT 200 or STAT 250) Students are required to have a C o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: ECON 302 or ECON 315 or ECON 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: ECON 102 (STAT 200 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332 and HPA 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 101 and HPA 301W and PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 301W and HPA 332 and HPA 390W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 395	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332 and IST 210 and IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: HPA 332 and HPA 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: approval of honors thesis advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Enforced Prerequisite at Enrollment: Department approval	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hpa/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Prerequisite: HEBR 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Prerequisite: HEBR 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Cross-listed with: JST 10 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Cross-listed with: CAMS 151, JST 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Cross-listed with: CAMS 152, JST 152 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/

Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit) Bachelor of Arts: Humanities Exceeds 12th Unit of World Language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit) Bachelor of Arts: Humanities Exceeds 12th Unit of World Language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hebr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hied/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hindi/
Prerequisite: HINDI001 or equivalent competency	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hindi/
Prerequisite: HINDI002 or equivalent competency	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hindi/
Prerequisite: HINDI003 or equivalent competency	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hindi/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AMST 3 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CAMS 5 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: METEO 6N	International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CAMS 100	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CAMS 101	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: CAMS 102, JST 102, RLST 102		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: CAMS 104		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: MEDVL 107		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
	GenEd Learning Objective: Soc Resp and Ethic Reason	

Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
United States Cultures (US)		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Cross-listed with: JST 115, RLST 115		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: WMNST 116N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: WMNST 117		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: JST 118		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: World Cultures	
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	General Education: Humanities (GH)	
Bachelor of Arts: Social and Behavioral Sciences		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: JST 121		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: STS 124		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	

Cross-listed with: SC 125N	General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AMST 127, LTNST 127	Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
International Cultures (IL)	General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ANTH 129N, PLANT 129N	Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences Bachelor of Arts: World Cultures General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) Honors GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Arts	Bachelor of Arts: Humanities United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 140	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Bachelor of Arts: World Cultures		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: JST 143N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	International Cultures (IL)	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: SOC 145N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	Bachelor of Arts: Social and Behavioral Sciences	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AMST 150		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AMST 151N, STS 151N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Social and Behavioral Sciences	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	General Education: Social and Behavioral Scien (GS)	
	General Education - Integrative: Interdomain	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: AFAM 152		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	Bachelor of Arts: Humanities	
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	Writing Across the Curriculum	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
	United States Cultures (US)	
	General Education: Humanities (GH)	

Cross-listed with: AMST 155 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CRIMJ 159 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AMST 161 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ENGL 161N Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFAM 164 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ARAB 165, RLST 165 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: one introductory level course in History or Women's Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 172, JAPNS 172 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 174 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 175 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 176 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 177 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CAMS 180 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 181 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 182 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: ASIA 183	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 186, JST 186	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 187	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 188	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 190	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFR 191	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFR 192	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFR 192H	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 193	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CAMS 194, JST 194, RLST 194	Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: GER 123, JST 195 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFAM 210 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFAM 211 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Recommended Preparation: 3RD SEMESTER STANDING	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: AFAM 213Y, WMNST 213Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: CMLIT 240Q, IT 240Q, WMNST 240Q International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: AFAM 250 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Arts Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 260 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: WMNST 266Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ARTH 292N International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Honors Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 305Y Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Enforced Prerequisite at Enrollment: ECON 102 and ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021 or HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 , HIST 101 , or 3 credits in classical studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Prerequisite: HIST 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 409Y, RLST 407Y, RLST 409Y Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 6 credits in European history or medieval studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 107	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in medieval studies, or in language, literature, or European history of the medieval period	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 416 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in European history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 116 , HIST 117 , WMNST100 , or WMNST106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: J ST 010 , J ST 121 , or by consent of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in European history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: an introductory science course and a history course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in African history; 3 credits in African political science; or 3 credits in American political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 141 or HIST 142	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 001 or HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: J ST 010 or J ST 121 or HIST 121 or consent of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 , 3 additional credits in history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 , 3 additional credits in history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in American history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 443	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 130	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 130 or HIST 020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 021 , 3 additional credits in history, economics, or political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 021 , 3 additional credits in history, economics, or political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021 , 3 additional credits in history or political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021 , 3 additional credits in history or political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: three credits in history, marketing, or advertising	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: GEOG 030 ; and HIST 020 , HIST 021 ; or 6 credits in the humanities or social sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 020 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisites: Three credits in JST, HIST, or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST or LHR or LHR 100 or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities United States Cultures (US) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: Two lower-level courses in ASIA, HIST, or RLST; or fifth-semester standing.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: AF AM100 , HIST 021 , HIST 152 , PL SC001 , or PL SC002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: WMNST100 , WMNST117	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/

Cross-listed with: LTNST 467 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: CRIMJ100 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 011 , HIST 020 , HIST 152 , HIST 178 or HIST 192	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: RLST 471Y Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: JST 473 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 172 , HIST 174 , JAPNS120 or JAPNS121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 010 , HIST 011 , HIST 172 , HIST 175 , HIST 176 , HIST 181 , or HIST 191	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in history	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: ASIA 480 Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 172 , HIST 174 , or HIST 175	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: ASIA 3; ASIA 100; ASIA 104; ASIA 175; ASIA 181; HIST 175; CHNS 120; CHNS 121; ENGL 15; RLST 3; RLST 181; 5th Semes	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 174	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 174 or HIST 175	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 175 or HIST 300H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 175 or HIST 300H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 002 or HIST 021	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: LST 490 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 002 , HIST 134 , or HIST 436	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: HIST 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits of HIST Recommended Preparations: HIST 1; HIST 2; HIST 10; HIST 11; HIST 20 or HIST 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: prior written approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Prerequisite: 3 credits in the appropriate introductory history course for the geographic location specified	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hist/
Cross-listed with: PUBPL 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
Cross-listed with: PUBPL 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
Prerequisite: PLSC 201; HLS 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
Prerequisite: PLSC 201; HLS 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hls/
Prerequisite: member of the Presidential Leadership Academy	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: admission to an honors program belonging to the Penn State Honors Consortium	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: admission to an honors program belonging to the Penn State Honors Consortium or approval from the Schreyer Honors Col	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: admission to an honors program belonging to the Penn State Honors Consortium	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: admission to an honors program belonging to the Penn State Honors Consortium	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: HONOR301H and enrollment in an honors program belonging to the Penn State Honors Consortium	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Prerequisite: HONOR301H , senior standing, and enrollment in an honors program belonging to the Penn State Honors Consortium	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
International Cultures (IL) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/honor/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Recommended Preparation: Students should be physically capable of pulling their weight up a rope	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Cross-listed with: TURF 238	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: Landscape Contracting majors, in the Design/Build Option Enforced Corequisite at Enrollment: HORT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: (HORT 315 or BIOL 441) and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: (HORT 137 or HORT 138 or FOR 203) and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 269 or HORT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101 RECOMMENDED PREPARATION: HORT 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: BIOL 220W or FOR 308 or HORT 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101 or AGRO 28 or AGECO 121 Recommended Preparation: Students without one of the form	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: AGBM 101 or ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: BMB 252 or BMB 252H or MICRB 252 or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 250 or HORT 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 464	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: HORT 250 or HORT 269	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
Enforced Prerequisite at Enrollment: Approval of proposed assignment required prior to registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
International Cultures (IL) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hort/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Corequisite at Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Concurrent at Enrollment: HM 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/

General Education: Health and Wellness (GHW) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: a grade of C or better required in HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: (ENGL 015 or ENGL 030H or ESL 015) and a grade of C or better required in HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite: C or better in HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite or Concurrent at Enrollment: HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: students must be at least 21 years old	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Recommended Preparation: Must be 21 years old or older to register for the class	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: a grade of C or better required in HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: a grade of C or better required in HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Recommended Preparations: Proof of Age 21+	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: (ACCTG 211 or HM 235) and HM 272	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 242	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 272	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: A grade of C or better required in HM 201 and HM 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 386	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: Approval by course instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 395A and approval by course instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: Approval by course instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: Approval by course instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 101 or C or better in AGBM 170 or C or better in AGBM 170N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: A grade of C or better in HM 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: A grade of C or better in HM 201 and HM 228 and HM 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: ECON 102 and HM 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 280 and HM 336 and HM 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: C or better in HM 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: a grade of C or better in HM 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: ACCTG 211 or HM 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/

Enforced Prerequisite at Enrollment: HM 384	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 386	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: ACCTG 211 or HM 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: HM 242 and a grade of C or better in HM 336 and HM 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: A grade of C or better in HM 336 and HM 365 and HM 442	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment:1000 hours of work experience in the hotel, restaurant and institutional management industry; Concur	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
Enforced Prerequisite at Enrollment: STAT 200 and a grade of C or better in HM 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
United States Cultures (US) General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Recommended Preparations: It is suggested (but not required) that students complete HDFS 108N prior to or concurrent with HDFS 109.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: Recommended Preparations: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
General Education: Quantification (GQ) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL) General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Bachelor of Arts: Social and Behavioral Sciences General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/

Enforced Prerequisite at Enrollment: 3 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEOG or HDFS or HIST or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Cross-Listed Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Cross-listed with: CMAS 258N, SOC 258N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
United States Cultures (US) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 or permission of human development and family studies honors adviser	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: Permission of Human Development and Family Studies honors adviser	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: A grade of C or better required in EDPSY 101 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Recommended Preparations: HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 or (3 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEOG or HDFS or HI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 or (3 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEOG or HDFS or HI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229 or PSYCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Recommended Preparations: HDFS 175N or HDFS 129 or HDFS 239	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 175N Recommended Preparations: HDFS 345 or ENGL 15 or CAS 100 or HDFS 239	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 312W and approval by internship coordinator. Prerequisite or concurrent: HDFS 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 and (HDFS 312W or 6 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 312W and (3 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEOG or HDFS o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 311 and HDFS 312W) or [6 credits in HDFS or 6 credits in PSYCH or (3 credits in HDFS and 3 c	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDSF 229 or PSYCH 212) and HDFS 311 and HDFS 312W and (HDFS 315 or HDFS 315Y)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 129 or HDFS 249) and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 312W and [6 credits in HDFS or 6 credits in PSYCH or (3 credits in HDFS and 3 credits in PSYC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 311 and HDFS 312W and (HDFS 315 or HDFS 315Y)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 and HDFS 312W and [(HDFS 315 or HDFS 315Y) or (6 credits in SOC or ANTH)]	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 312W and (HDFS 315 or HDFS 315Y)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 312W and (HDFS 315 or HDFS 315Y)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: PSYCH 100 and (KINES 321 or HDFS 129 or PSYCH 212)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or PSYCH212) and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or PSYCH212) and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or PSYCH 212) and HDFS 312W and HDFS 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: 6 credits in HDFS or 6 credits in PSYCH or 6 credits in SOC or (3 credits in HDFS and 3 credits in PSY	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 229 and (HDFS 239 or PSYCH 212) and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 239 and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: 3 credits of SOC or HDFS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 249 and (HDFS 312W or PSYCH 301W) and (PSYCH 200 or STAT 200 or 3 credits in STAT) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 249 or HDFS 445 and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or HDFS 239 or HDFS 249 or PSYCH 212) and HDFS 301 and (HDFS 312W or PSYCH 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: 6 credits of HDFS or PSYCH or SOC or RHS.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or HDFS 239) and HDFS 312W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/

Enforced Prerequisite at Enrollment: HDFS 229 and HDFS 312W and (HDFS 315 or HDFS 315Y)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: CMAS 258N or HDFS 258N or SOC 258N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 229 or HDFS 239) and (HDFS 312W or PSYCH 212)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: (HDFS 312W or BBH 301W or PSYCH 301W) and 6 additional credits from HDFS or PSYCH or SOC o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 301 Recommended Preparation: HDFS 312W, 6 additional credits of HDFS coursework at the 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 301 and HDFS 312W and instructor approval.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 129 or PSYCH 100 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: approval of honors thesis advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 490 and HDFS 301 and HDFS 455, and permission of internship director	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 495A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
Enforced Prerequisite at Enrollment: HDFS 401 or HDFS 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hdfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hrm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hrm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
Enforced Prerequisites at Enrollment: HCDD 113 or HCDD 113S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
Enforced Prerequisites at Enrollment: (HCDD 264 or IST 331) and (IST 256 or IST 311)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
Enforced Prerequisites at Enrollment: HCDD 264	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
Enforced Prerequisites at Enrollment: HCDD 364W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hcdd/
General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/

Prerequisite: HUM 100N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
Prerequisite: ENGL 15 or equivalent preparation in composition	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
Prerequisite: ENGL 015, ENGL 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
Prerequisite: HUM 300W , seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
Prerequisite: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hum/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/hss/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 141 and (CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 305 and IE 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210 Enforced Concurrent at Enrollment: ESC 414M or MATSE 25	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 141 Enforced Concurrent at Enrollment: EMCH 211 or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 322 and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 302 and IE 322 and IE 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 327 and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 141 Enforced Concurrent at Enrollment: MATH 220 or BE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: MATH 220 and IE 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 327	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 305 and MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 304 and IE 323 and IE 405 Enforced Concurrent at Enrollment: IE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 323 or STAT 319 or MATH 319 or STAT 415 or MATH 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 323 or STAT 319 or MATH 319 or STAT 415 or MATH 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 405 Enforced Concurrent at Enrollment: IE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 323 or STAT 319 or MATH 319 or STAT 415 or MATH 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: (CMPSC 200 or CMPSC 201) and IE 323 and IE 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: EMCH 212 and (ME 360 or ME 367)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 322 and IE 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/

Enforced Prerequisite at Enrollment: MATH 141 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 405 and (MATH 231 or MATH 230)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Concurrent at Enrollment: IE 306 or IE 307 or IE 311 or IE 428	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 304 and (IE 330 or STAT 380) and (IE 405 or STAT 440) and (IE 425 or STAT 416)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 408 or IE 419	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Enforced Prerequisite at Enrollment: IE 302 and IE 305 and IE 323 and IE 327 and IE 405. Enforced Concurrent at Enrollment: IE 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ie/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
Enforced Prerequisite at Enrollment: IET 101 or MET 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
Enforced Concurrent at Enrollment: IET 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
Enforced Prerequisite at Enrollment: ET 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
Enforced Prerequisite at Enrollment: MATH 26 or MATH 40 or MATH 41 or MATH 83 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in Math 21 or placement above the level of Math 21 in the mathematics placement test. Re	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Cross-listed with: CAS 170N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 226	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 226	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/

Cross-listed with: COMM 234N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Cross-listed with: WMNST 235 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: MGMT 215 or ENGR 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 140 or CMPSC 101 or CMPSC 121 or CMPSC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 140 or IST 240 or CMPSC 121 or CMPSC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisites at Enrollment: IST 250 or IST 242 or CMPSC 122 or CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 210 and IST 220 and ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 242 or CMPSC 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 210 and IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 210 and IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Cross-listed with: COMM 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 242 or CMPSC 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 240 or IST 242 or CMPSC 122 or CMPSC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110 or SRA 111. Co-requisite: Employment as a Learning Assistant in the College of IST.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 210 and IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 240 or IST 242 and C or better in IST 301 and C or better in IST 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: (ECON 102 or ECOn 104 or ECOn 14 or MGMT 215) and (CAS 100 or CAS 138T or EMSC 100S)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104 or ECON 14) and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 210 and IST 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 301 or SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: ENGL 202C or ENGL 202D and seventh semester standing (this course is intended for seniors)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Recommended Preparation: 6 credits of honors course work.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 311 and IST 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: COMM 310 or IST 310 or COMM 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: COMM 450 or IST 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 220 and SRA 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 432	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110 and sixth semester standing or higher.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 220 or SRA 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: C or better in IST 220 and SRA 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 210 and IST 240	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: IST 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ist/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/itech/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iec/
Enforced Prerequisite at Enrollment: IEC 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iec/
Enforced Prerequisite at Enrollment: IEC 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iec/
Enforced Prerequisite at Enrollment: IEC 100 and (PHIL 107 or PHIL 119)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/iec/
Prerequisite: Bachelor's degree or equivalent; or 5th semester standing; or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/insys/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Cross-listed with: AFAM 126N United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/

Cross-listed with: AFAM 141N, ENGL 141N United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Cross-listed with: ENGL 190Q General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Enforced Prerequisite at Enrollment: Fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Recommended Preparations: AMST 100 or AFAM 126 or INART 126	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Enforced Prerequisite at Enrollment: MUSIC 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Enforced Prerequisite at Enrollment: INART 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/inart/
Prerequisites: 3rd semester standing.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/isb/
Prerequisites: 7th Semester standing; FIN 301; SCM 301; MGMT 301; MKTG 301; ISB 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/isb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/isb/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
Enforced Prerequisite at Enrollment: FDSC 200 and Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
Enforced Prerequisite at Enrollment: INTAG 100 or AGBM 101 or ECON 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
Enforced Prerequisite at Enrollment: INTAG 470A or AGBM 470A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
Enforced Prerequisite at Enrollment: INTAG 100N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
Enforced Prerequisite at Enrollment: Prior approval of proposed internship plan.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intag/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: IB 303 and (BA 241 or BA 243 or BLAW 341)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: ACCTG211 and (BA 301 or FIN 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: ACCTG211 and (BA 301 or FIN 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: AFAM 100N or AFR 110 or PLSC 3 or PLSC 14 or PLSC 200N or PLSC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: ACCTG211 and (BA 301 or FIN 301)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: ACCTG 211 and (BA 301 or FIN 301) and Enforced Concurrent: IB 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: IB 303 and MKTG 301 and SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: Fifth semester standing or higher required	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Enforced Prerequisite at Enrollment: permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ib/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intst/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intst/
Prerequisite: Approval by International Studies or Global Studies Advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intst/
Prerequisite: minimum 30 credit hours; minimum 2.0 GPA; prior approval of proposed assignment(s) by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intsp/
Prerequisite: minimum 30 credit hours; minimum 2.0 GPA; prior approval of proposed assignment(s) by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intsp/
Prerequisite: formal acceptance into a College major; junior standing; minimum 2.0 GPA; completion of core research/skills course(s) for	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intsp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/intsp/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 010	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: Concurrent enrollment in IT 001 , IT 002 , IT 003 , IT 010 or IT 020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 051 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/

Bachelor of Arts: Humanities	International Cultures (IL) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
International Cultures (IL)	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
International Cultures (IL)	General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisites: SPAN 3 or SPAN 3H or SPAN 20 or IT 3 or IT 20 or PORT 3 or PORT 123		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Cross-listed with: CRIM 225N	General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Cross-listed with: CMLIT 240Q, HIST 240Q, WMNST 240Q	International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 3 or IT 20 or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 3 or IT 20 or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisites: IT 20 or IT 3		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 3 or IT 20 or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 003 , IT 020 , or permission of program		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: prior approval of proposed assignment by instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 003		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: any 300-level course in Italian		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: IT 301 or IT 310 or IT 320 or IT 325 or IT 330W or IT 399 or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: any Italian course at the 300-level		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: any 300-level IT course		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: any 300-level IT course		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: any 300-level IT course		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: 5TH SEMESTER STANDING		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: Minimum fifth-semester standing or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Prerequisite: Minimum fifth-semester standing or permission of instructor		https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/

Prerequisite: Minimum fifth-semester standing or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/it/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Bachelor of Arts: Arts Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Bachelor of Arts: Arts Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Cross-listed with: ASIA 122 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Cross-listed with: ASIA 172, HIST 172 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/

Prerequisite: JAPNS002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS403Y	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS110 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: HIST 172 , HIST 174 , JAPNS120 or JAPNS121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS 120; JAPNS 121; ASIA 100; ASIA 101; ASIA 102; ASIA 105; ASIA 172; ASIA 175; ASIA 185; HIST 172; HIST 175; HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Cross-listed with: ASIA 431 Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisites: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 104; ASIA 172; ASIA 174; ASIA 175; ASIA 185; CMLIT 4; HIST 172; HIST 174; H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: ASIA 4; ASIA 100; ASIA 101; ASIA 102; ASIA 104; ASIA 172; ASIA 174; ASIA 175; CMLIT 4; HIST 172; HIST 174; HIST 175; J	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Prerequisite: JAPNS110 or JAPNS299	https://bulletins.psu.edu/university-course-descriptions/undergraduate/japns/
Cross-listed with: CAMS 4, RLST 4 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HEBR 10 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 12N, RLST 12N Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: ANTH 60N, PLSC 60N, SOC 60N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 70, RLST 70 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/

Bachelor of Arts: Humanities International Cultures (IL) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 90, RLST 90 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 102, HIST 102, RLST 102 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: ENGL 104 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: RLST 106 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 110, RLST 110 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 111, RLST 111 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 121, RLST 121 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 113, CMLIT 113, RLST 113 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/

Cross-listed with: RLST 114 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 115, RLST 115 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 118 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 120, RLST 120 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 121 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 122, RLST 122 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 123, RLST 123 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 124, RLST 124 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CMLIT 128N, ENGL 128N, GER 128N Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/

Cross-listed with: CMLIT 110 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: ENGL 132 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: PHIL 135, RLST 135 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 140 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 143N Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 151, HEBR 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 152, HEBR 152 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 153, RLST 153 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 160, RLST 160 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 181 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: ASIA 186, HIST 186 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/

Cross-listed with: HIST 190 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 193 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: CAMS 194, HIST 194, RLST 194 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: GER 123, HIST 195 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 235, RLST 235 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 260 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 305Y Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: APLNG 320N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: RL ST110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 409Y, RLST 407Y, RLST 409Y Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisites: Second semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 416 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: 3 credits in CAMS or 3 credits in ANTH or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: 3 credits of CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: 3 credits in CAMS or J ST or RL ST, recommended CAMS/J ST/RL ST 110 or 120; or ENGL 104.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: J ST 010 , J ST 121 , or by consent of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/

Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: 3 credits in CAMS, RLST, or JST.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: A previous course in Jewish Studies, Film Studies, Media Studies, Art, Music, English, or Comparative Literature.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: J ST 010 or J ST 121 or HIST 121 or consent of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 443	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: PL SC003 , PL SC007 or PL SC014 or HIST 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Enforced Prerequisite at Enrollment: Three credits in JST or ANTH or SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Enforced Prerequisite at Enrollment: Prerequisites: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: one course in Philosophy and/or Jewish Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: HIST 473 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisites: Three credits in JST, HIST, or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: One course in either JST or PHIL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/jst/
Cross-listed with: RPTM 1 General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 10 or with permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Recommended Preparations: KINES 29 or have played golf	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Recommended Preparations: KINES 29 or have played golf	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/

General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Meet NAUI standards and/or by permission of the instructor. and Students may only earn credit in eith	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Recommended Preparation: Students should be comfortable in shallow and deep water and be moderately proficient in front crawl, elemer	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 47A or Students taking this course must demonstrate the ability to swim in depths of over 4ft success	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Recommended Preparations: KINES 47B; KINES 47A; Satisfactory placement on the swimming examination; proficiency of front crawl, bre	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Humanities (GH) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Humanities (GH) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
First-Year Seminar General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Intermediate or advanced swimming level or Students taking this course must be proficient in swimmi	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 77	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/

General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Arts (GA) General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Member of Varsity team sport in season.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Successful completion of relevant course, adequate experience in the topic, or permission of the instr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Corequisite at Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: EDPSY 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Cross-listed with: ATHTR 135	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Cross-listed with: BIOL 160N Bachelor of Arts: Natural Sciences General Education: Health and Wellness (GHW) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: BIOL 141 or BIOL 161 or KINES 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 2nd Semester Standing in HHD or KINES major or KINES minor or ATHTR major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Cross-listed with: PLSC 222N, PUBPL 222N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Concurrent at Enrollment: KINES 295B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 2nd semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: completion of three credits in KINES	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a C or better in KINES 101 and [(BIOL 141 and KINES 202) or (BIOL 161 and BIOI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: BIOL 141 or BIOL 161	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: (BIOL 161 or BIOL 141) and NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in KINES 101 or KINES 180 and KINES 202 and (BIOL 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a C or better grade in all of the following: EDPSY 10 and KINES 100 and KINES 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Concurrent at Enrollment: KINES 267	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 200 and KINES 201 Concurrent Courses: KINES 267 and KINES 367	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in: KINES 101 and KINES 202 and (PHYS 150 or PHYS 25(	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 295	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a C or better in: EDPSY 10 and KINES 100 and KINES 101 and KINES 295B and I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 295B and fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite or Concurrent at Enrollment: KINES 367 and KINES 368	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Prerequisites: KINES 202 or BIOL 129 or BIOL 161 or 162 or 163 or 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES303 and/or current advanced first aid and cardiopulmonary resuscitation certification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 or LARCH 125 or [5th Semester standing and (3 credits of CAS or 3 credits of ENGL)]	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 5th Semester standing and (KINES 100 or KINES 101)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 6th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 or RHS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 or 3 credits in PSYCH or SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 and PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 and PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: PSYCH 100 or SOC 1 or WMNST 100 or KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: PSYCH 100 and (KINES 321 or HDFS 129 or PSYCH 212)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 and PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 and PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321 or PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 345 or 3 credits in PHIL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 or KINES 341 or COMM 170 or RPTM 120 or HIST 113 or ENGL 234 or AFAM 114 or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 6 credits in KINES or BBH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 or KINES 341 or COMM 170 or RPTM 120 or HIST 113 or ENGL 234 or AFAM 114 or ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 7th semester or higher and major in KINES or 7th semester or higher and minor in KINES or 7th semes	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 or 3 credits of AFR or 3 credits of HIST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/

Enforced Prerequisite at Enrollment: KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350 and KINES 456	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350 or BIOL 163	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 5th Semester standing and KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 260 and STAT 200 and at least 4 of the following (KINES 321 or KINES 341 or KINES 345 or KI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 461W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in: EDPSY 10 and KINES 100 and KINES 101 and KINES 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 345 and KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Students must have a grade of C or better in: EDPSY 10 and KINES 100 and KINES 101 and KINES 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisites at Enrollment: BIOL 161 and BIOL 163 and KINES 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 384	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 200 and KINES 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 384	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 260 and STAT 200 and at least 4 of the following KINES 300 level courses should be taken. (KI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 5th Semester Standing and (KINES 100 or KINES 101)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 and Students may only receive credit for KINES 493 or KINES 493W.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 and Students may only receive credit for KINES 493 or KINES 493W.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: Approval of honors thesis advisor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 366, 395A, 464, 468W C or better, 3.0 GPA, completion of all PA Dept of Education Entrance C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 395B and 7th Semester standing and 2.00 cumulative GPA or greater cumulative GPA and 9 cr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 100 and KINES 101 and KINES 200 and KINES 202 and fifth semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: KINES 495B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Enforced Prerequisite at Enrollment: 5th Semester standing and (KINES 100 or KINES 101)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kines/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 001 , KOR 002 ,and KOR 003 (or equivalent cumulative knowledge of Korean)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 110 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 401 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 121; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 121 or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisite: KOR 120; KOR 121; ASIA 100; ASIA 102; ASIA 83; ASIA 4; CMLIT 4; 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Prerequisites: KOR 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/kor/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: LER 201 and sixth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: LER 201 and 6th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: AAA S 100 level course and PL SC001 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: 6th semester standing and 6 credits of Labor Studies and Employment Relations	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Prerequisite: LER 488	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ler/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Cross-listed with: AFAM 136, WMNST 136 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Cross-listed with: AFAM 136Y, WMNST 136Y Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Cross-listed with: AA 160N Bachelor of Arts: Arts Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/

Cross-listed with: ENGL 165N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th Semester standing or 3 other credits of LHR	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: OLEAD 100 or 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: 5th Semester standing or 3 credits of LHR or LHR 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th Semester standing or 3 other credits of LHR	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th Semester standing or 3 other credits of LHR	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisites: LHR 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 6th 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th Semester standing or 3 other credits of LHR	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Corequisites: 3 credits of LHR course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisites: 9 credits in LER	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: 3 credits in HIST or LHR or LHR 100 or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisites: LHR 100, and 4th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th Semester standing or 3 other credits of LHR	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LER 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisites: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Enforced Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 credits of LHR or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: LHR 100 or 3 other credits of LHR or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Prerequisite: 3 credits of LHR and Prior approval by department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lhr/

Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Corequisite at Enrollment: LARCH 155	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 115 and LARCH 155 and Enforced Concurrent at Enrollme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Corequisite at Enrollment: LARCH 115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 155 and LARCH 115 Concurrent at Enrollment: LARCH 11	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 116 and LARCH 156 Concurrent at Enrollment: LARCH 25	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 145 and LARCH 215 and LARCH 255 Concurrent at Enroll	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: LARCH 116 and LARCH 221 Enforced Concurrent at Enrollment: LARCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 116 and LARCH 156 Concurrent at Enrollment: LARCH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 235 and LARCH 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 145	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 145	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 116 and LARCH 156 Concurrent at Enrollment: LARCH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 215 and LARCH 255 Concurrent at Enrollment: LARCH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 60	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 216 and LARCH 256	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Prerequisite: LARCH241 , LARCH212 , LARCH222; Concurrent: LARCH311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Prerequisite: LARCH311 , LARCH321; Concurrent: LARCH312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 216 and LARCH 235 and LARCH 256	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: LARCH 60	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: LARCH 276	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: KINES 100 or LARCH 125 or [5th Semester standing and (3 credits of CAS or 3 credits of ENGL)]	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 235 and LARCH 315 and LARCH 335	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Students must earn a C or better in LARCH 365W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Prerequisite: LARCH361W; Concurrent: LARCH499B, LARCH499C , LARCH499D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Prerequisite: LARCH312 , LARCH361W; Concurrent: LARCH499A, LARCH499C , LARCH499D	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
Prerequisite: LARCH361W; Concurrent: LARCH499B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/larch/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/

General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 4th Semester standing Corequisites: LLED 401, LLED 402, CI 460	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 4th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing Recommended Preparation: Entrance to SECED major or graduate certification program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisite: LLED 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing Recommended Preparation: Entrance for SECED major or graduate level certification pathway.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: LLED 420; LLED 520	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: EDPSY 014; 6th Semester standing or Graduate Status or Non Degree Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisites: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Concurrent: LL ED 411, LL ED 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Prerequisite: LL ED400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lled/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lang/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Prerequisite: LATIN 203 or LATIN 3 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/

Prerequisite: LATIN 203 or LATIN 3 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Prerequisite: LATIN 203 or LATIN 3 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latin/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latam/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/latam/
Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: AMST 127, HIST 127 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: PHIL 139 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: ENGL 226 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Prerequisites: (WMNST 100 or WMNST 100U or WMNST 105N or WMNST 106N or WMNST 106Q or LTNST 100)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: SPAN 315N United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: SPAN 326 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Prerequisite: 3 credits in the humanities or in any LTNST course, or 4th-semester proficiency in Spanish	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Cross-listed with: HIST 467 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ltnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lpe/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lpe/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisite: CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/

General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisites: LDT 215, LDT 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisite: Bachelor's degree or equivalent; or 5th semester standing; or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisite: Bachelor's degree or equivalent; or 5th semester standing; or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisite: 6th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisites: 5th Semester standing or Graduate Status or Non-degree GRAD status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ldt/
Prerequisite: open only to DUS students	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Cross-listed with: COMM 335N General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Prerequisite: 60 undergraduate credits or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Prerequisite: ENGL 15, and 6 credits in social and behavioral sciences (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Prerequisite: LA 335N or COMM 335N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/la/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lst/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lst/

Cross-listed with: HIST 490 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lst/
Prerequisite: L ST 490 or L ST 496	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/lst/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: LING 100 or AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: C or better in LING 100, or C or better in MATH 311W or C or better in CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: C or better in LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: C or better in LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 1 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: C or better in LING 100, or C or better in MATH 311W or C or better in CMPSC 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Prerequisite: C or better in LING 100 Concurrent: LING 404 and LING 402 Recommended Preparation: Prior completion of Two upper-level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ling/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: BA 304 or MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: BA 304 or MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: BA 304 or MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: BA 304 or MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/

Enforced Prerequisite at Enrollment: ECON 102 or ECON 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301 and (SCM 301 or SCM 310)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: SCM 301 and (MGMT 409 or MGMT 410 or BA 421)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: SCM 301 and (MGMT 409 or MGMT 410 or BA 421)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301 or BA 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 321 or MGMT 326	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: (ECON 102 or ECOn 104 or ECOn 14 or MGMT 215) and (CAS 100 or CAS 138T or EMSC 100S)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104 or ECON 14) and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: (ECON 102 or ECON 104 or ECON 014) and CAS 100 and 5th semester standing.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: CAS 100 and 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: SCM 301 and (MGMT 409 or MGMT 410)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: ACCTG 211 and MGMT 301 and MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 215 or BA 342 or BA 243 or (BA 241 and BA 242)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: (BA 241 and BA 242) or BA 243 or BA 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 453	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: BA 304 or MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 326 and concurrent BA 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301 and MKTG 301 and FIN 301 and SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301 and FIN 301 and MKTG 301 and (SCM 301 or SCM 310) and 7th semester standing. Reco	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 475W or 8th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 326 or (MGMT 321 and MGMT 331)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 453 and MGMT 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: MGMT 485	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mgmt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/

Enforced Prerequisite at Enrollment: (SCM 200 or STAT 200) Concurrent Courses: (MATH 110 or MATH 140) and (MIS 204 or MIS 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: IST 140 or CMPSC 101 or CMPSC 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204 or MIS 110 or CMPSC 121 or CMPSC 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204 or MIS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: SCM 200 or STAT 200 or equivalent approved course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204 or MIS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204 or 1st Level Programming Course or with the permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: SCM 301 and MIS 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 307 and MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 315 and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 307 and MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite or Concurrent at Enrollment: MIS 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 301. Concurrent: SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Concurrent at Enrollment: MIS 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 204 and MIS 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 430 and (CMPSC 122 or CMPSC 302 or MIS 315)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 301 or MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 336 or equivalent approved course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 307 and MIS 390 and MIS 431 and seventh semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: (IST 140 or CMPSC 101 or CMPSC 121) and MIS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 307	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 432	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 345	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: MIS 307 and MIS 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mis/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: 3 credits in ECON	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prereq at Enrollment: (ENGL 15 or ENGL 30H or ENGL 137H or ESL 15 or CAS 137H) and (ECON 102 or ECON 104) and (MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/

Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: (BA 303 or MKTG 301) and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: Prior approval of proposed internship by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 or MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 342 or SUST 200 or CED 152	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: BA 303 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 and MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301 and MGMT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 330 or MKTG 342	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
Enforced Prerequisite at Enrollment: Permission from the Instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mktg/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/maet/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Cross-listed with: EGEE 101 Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Cross-listed with: EGEE 101A Bachelor of Arts: Natural Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites:CHEM 112 or MATSE 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites: (CHEM 202 or CHEM 210) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: ENGL 15 or ENGL 30H or (ENGL 137H and ENGL 138T) and 3rd Semester or above	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATH 141 Concurrent: MATSE 201 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: EMCH 213 or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201, MATSE 202, MATH 220, MATH 231, MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201 and MATSE 202 and (MATH 251 or (MATH 250 and MATH 252))	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites: MATSE 201 and MATSE 202 and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/

Enforced Prerequisite at Enrollment: (MATSE 201 or CHEM 112) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: CHEM 112 or MATSE 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201, MATSE 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 400, MATSE 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201 and MATSE 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites: MATSE 201 and MATH 220 and (MATH 231 or MATH 230)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Concurrent at Enrollment: MATSE 400 and MATSE 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: CMPSC 200 and MATSE 201 and MATSE 202 and MATH 220 and (MATH 231 or MATH 230) and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites: PHYS 212, MATSE 401, MATSE 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 401, MATSE 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 402	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: EME 301 or MATSE 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201 or MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: (MATSE 201 or MATSE 259) and 6th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisites: MATSE 201 and MATSE 202 and MATH 220 and (MATH 230 or MATH 231) and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: (MATSE 201 or MATSE 259) and MATSE 202 and MATH 220 and (MATH 231 or MATH 230) and MATH 251 and PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: EMCH 213 or EMCH 210H or EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: (CHEM 202 or CHEM 210) and MATSE 202 and (MATH 231 or MATH 230)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: MATSE 201 and MATSE 202 (or equivalent introductory course on materials)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: (MATSE 201 or ESC 414M) and Sixth Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201 or ESC 414M, ESC 314	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201 and MATSE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 460	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 400, MATSE 430, MATSE 450, MATSE 455, MATSE 460; Concurrent: MATSE 450, MATSE 455	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 462 Concurrent Courses: MATSE 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 462 Enforced Concurrent at Enrollment: MATSE 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 202 and MATSE 462	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: EMCH 315 or ESC 414M or MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: PHYS 214 or ESC 312, MATH 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 201, MATSE 202, MATSE 436, sixth semester standing in Materials Science and Engineering	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Prerequisite: MATSE 492W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Honors Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/matse/
Enforced Prerequisite at Enrollment: Satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 3 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Concurrent: math 003-201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 4 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
General Education: Quantification (GQ) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 4 or satisfactory performance on the math placement exam	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
RECOMMENDED PREPARATIONS: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 4 or satisfactory performance on the mathematics placement exam	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/

Prerequisite: one unit of algebra or MATH 004	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Prerequisite: 2 units of high school mathematics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 21 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Prerequisite: MATH 004 or satisfactory performance on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 81	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 82 or MATH 41	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 22 or MATH 40 or MATH 41 or satisfactory performance on the mathematics placement examin	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: Math 22 and Math 26 or Math 26 and satisfactory performance on the mathematics placement examir	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: Math 22 and Math 26 or Math 26 and satisfactory performance on the mathematics placement examir	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: Math 22 and Math 26 or Math 26 and satisfactory performance on the mathematics placement examir	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: Math 22 and Math 26 or Math 26 and satisfactory performance on the mathematics placement examir	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: Math 22 and Math 26 or Math 26 and satisfactory performance on the mathematics placement examir	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 or MATH 140A or MATH 140B or MATH 140E or MATH 140G or MATH 140H.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 83 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 110 or MATH 140 or MATH 140B or MATH 140E or MATH 140G or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 110 or MATH 140 or MATH 140B or MATH 140E or MATH 140G or MATH 140H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140 and (CMPSC 131 or (CMPSC 121 and DS 120)) Enforced Concurrent at Enrollment: CMPS(	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 231 or MATH 231H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisites at Enrollment: MATH141B or instructor approval	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 or MATH 220H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Prerequisite: MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification Honors Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 or MATH 141B or MATH 141E or MATH 141G or MATH 141H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 140H and MATH 311M or Concurrent: MATH 312H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: thirds-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/

Enforced Prerequisite at Enrollment: MATH 318 or STAT 318 or MATH 414 or STAT 414 or STAT 418 or MATH 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: 4 credits in mathematics and permission of the department Concurrent Course: SC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 312	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311M and MATH 312H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 or Concurrent: MATH 232 or (MATH 231 and RM 214)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 414 or STAT 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (STAT 318 or MATH 318 or STAT 414 or MATH 414) and (MATH 230 or MATH 232)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and (MATH 250 or MATH 251) and PHYS 212 and PHYS 213 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 232 or MATH 405) and (MATH 401 or MATH 403)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 401 or MATH 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W . Prerequisite or concurrent: MATH 427	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W or MATH 315	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 141 and (STAT 200 or STAT 301 or MATH 318 or STAT 318 or STAT 401 or MATH 414 or STAT 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 250 or MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (MATH 315 and MATH 430) or MATH 405 or MATH 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (CMPSC 101 or CMPSC 121 or CMPSC 131 or CMPSC 200 or CMPSC 201) and (MATH 230 or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 and (MATH 230 or MATH 231) and (CMPSC 101 or CMPSC 121 or CMPSC 131 or CMPSC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: (CMPSC 201 or CMPSC 202 or CMPSC 121 or CMPSC 131) and MATH 220 and (MATH 230 or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Cross-Listed Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 455	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: CMPSC 360 or MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 315 or MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: PHYS 237 and PHYS 400 and PHYS 419 and (MATH 250 or MATH 251) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 and MATH 230 and STAT 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 311W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Enforced Prerequisite at Enrollment: MATH 220 and MATH 230 and (MATH 250 or MATH 251) and (MATH 311W or MATH 311M)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/

Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
Bachelor of Arts: Quantification International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/math/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: Acceptance into SECED and CI 295, CMPSC 101, MATH 140, MATH 141, MATH 220, MATH 311W Corequisite: MTHED 427	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: MTHED 411 Corequisites: CI 495C Recommended Preparation: Recommend Grade of C or better in MTHED 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: 4th Semester standing and MATH 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: Acceptance into SECED and CI 295, CMPSC 101, MATH 140, MATH 141, MATH 220, MATH 311 Corequisite: MTHED 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: 7th Semester standing Recommended Preparations: Prior or current teaching experience is recommended	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: Acceptance into SECED or MLVED, MATH 140, MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: Acceptance into SECED or MLVED, MATH 140, MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisites: Acceptance into SECED or MLVED, MATH 140, MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisite: 7th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisite: 5th Semester standing Recommended Preparation: Introductory courses in education (e.g., CI 280, CI 295, EDPSY 14, EDTHI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Prerequisite: 5th Semester standing Recommended Preparation: Introductory courses in education (e.g., CI 280, CI 295, EDPSY 14, EDTHI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mthed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: CHEM 110 Enforced Concurrent at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320 Enforced Concurrent at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: (ME 345 or ME 348) and ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 and MATH 251 and (ME 201 or ME 300) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320 and (ME 345 or ME 348)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 and EMCH 213 and MATH 251 and PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EDSGN 100 and Concurrent at Enrollment: (ME 320 or BME 409) and ME 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EE 211 or EE 212 or EE 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: EE 212 or EE 211 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: MATH 251 and PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 213 and EDSGN100S Enforced Concurrent at Enrollment: CMPSC 200 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 345 or ME 348 Enforced Concurrent at Enrollment: (ME 357 or ME 450)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: CMPSC 200 and (EE 211 or EE 212) and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 213 Enforced Concurrent at Enrollment: CMPSC 200 or CMPSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 349 Enforced Concurrent at Enrollment: MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 and (CMPSC 200 or CMPSC 201) and MATH 220 and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: ME 370 and (ME 345 or ME 348)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 and MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: Fifth Semester standing in Mechanical Engineering	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/

Enforced Prerequisite at Enrollment: ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (ME 300 or ME 201) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (ME 320 or BME 409) and (CMPSC 200 or CMPSC 201) and (MATH 220 or NUCE 309)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (AERSP 312 or ME 320) and (MATH 250 or MATH 251) and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 349	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320 and ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 201 or ME 300 or EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 300 and ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 300 and ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 201 or ME 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (ME 345 or ME 348) and ME 330 and ME 320 Enforced Concurrent at Enrollment: ME 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 340 and Enforced Concurrent at Enrollment: IE 312 and ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 340 and ME 410 Enforced Concurrent at Enrollment: ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: MATH 220 and (MATH 230 or MATH 231) and (CMPSC 201 or CMPSC 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (ME 345 or ME 348) and seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 380 and seventh-semester standing. Enforced Concurrent at Enrollment: ME 367 and ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 448 and eighth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 370 Enforced Concurrent at Enrollment: ME 345 or ME 348	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: ME 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 345 or ME 348	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 320 and (ME 450 or ME 357)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 and (ME 360 or ME 367)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: CMPSC 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (EMCH 213 or EMCH 210H or EMCH 210) and (CMPSC 201 or CMPSC 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: MATH 251 and ME 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Concurrent at Enrollment: ME 468	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 349 Enforced Concurrent at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: MATSE 259	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 349 Enforced Concurrent at Enrollment: ME 468	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and (ME 370 or ESC 407 or EMCH 407)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: (EMCH 212 or EMCH 212H) and (CMPSC 201 or CMPSC 200 or ESC 261)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EMCH 212 Enforced Concurrent at Enrollment: CMPSC 200 or CMPSC 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: ME 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: EE 211 and ME 320 and ME 357 and EMCH 213 and ME 349 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/me/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Concurrent at Enrollment: MATH 81 or MATH 22 or MATH 26	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MATH 26 or MATH 81	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 111 and (MATH 82 or MATH 22)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: (MET 206 or EMCH 212 or PHYS 150 or PHYS 250 or PHYS 211) and (MET 213 or EMCH 213 or ET 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 111 and (MATH 26 or MATH 81)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Concurrent at Enrollment: MET 213 or EMET 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: (MET 107 and EGT 121) or (EGT 201 and EGT 205)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: EMCH 213 or MET 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MATH 140 and (ET 321 or EMCH 212 or MET 206)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: PHYS 250 or PHYS 211 or PHYS 150 Enforced Concurrent at Enrollment: CHEM 110 and (MATH 83 o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: ME 300 or MET 330 Enforced Concurrent at Enrollment: MET 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MATH 140 and CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: ET 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Corequisite at Enrollment: MET 332 and MET 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: EET 105 or EET 100 or EE 211 or EET 320 Enforced Concurrent at Enrollment: PHYS 151 or PHYS 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: IET 321 or (IET 215 and IET 216)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: ET 322 or EMCH 213 or MET 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Corequisite at Enrollment: IET 311 or IET 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 320 and (EGT 121 or EGT 205)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: EGT 120 and PLET 232 and MET 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: ME 300 or MET 330 or MET 332 Enforced Concurrent at Enrollment: MET 331W or MET 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 332 and MET 336	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: ME 300 or MET 330 or MET 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: (MET 206 or EMCH 212) and (MATH 211 or MATH 250) and MET 341 Enforced Concurrent at Enrollm	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: IET 216 and MET 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: (EMCH 212 or ET 321 or MET 206) and MET 321	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: Seventh semester standing and (IET 215 or ME 468) or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Corequisite at Enrollment: MET 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 210W and MET 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: CHEM 110 and CHEM 111 Enforced Concurrent at Enrollment: MET 415	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: IET 216 and MET 210W and MET 306 and (ME 300 or MET 330) Enforced Concurrent at Enrollment: M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 365 or MET 210W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 331W and MET 470 and MET 480 Enforced Concurrent at Enrollment: MET 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: MET 481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/met/
Cross-listed with: HIST 107 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/

Prerequisite: 6 credits in European history or medieval studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Prerequisite: 3 credits in medieval studies, or in language, literature, or European history of the medieval period	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Prerequisite: prior approval of proposed assignments by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/medvl/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Cross-listed with: HIST 6N International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Cross-listed with: ART 51N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Cross-listed with: AGECO 122 General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Cross-listed with: PHIL 133N, RLST 133N General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Concurrent: METEO101, METEO200A and METEO200B , or METEO201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 101 or 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: CHEM 110, MATH 141, PHYS 211; Concurrent: MATH 230 or MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/

Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , or METEO200A and METEO200B , or METEO201 , and METEO300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , or METEO200A and METEO200B , or METEO201 , and METEO300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , or METEO200A and METEO200B , or METEO201 , and METEO300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , or METEO200A and METEO200B , or METEO201 , and METEO300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , METEO200A and METEO200B , or METEO201 , and METEO300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , METEO241 , METEO361	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 101 or METEO 201; Concurrent: METEO 421 and METEO 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 415; Concurrent METEO 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: CHEM 110 and METEO 003 , or METEO101 , or METEO 200A and METEO 200B , or METEO 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 300, PHYS 212, MATH 230 or MATH 231 and MATH 232; Concurrent: METEO 431, MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 411, METEO 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 101 or METEO 201, PHYS 212; Concurrent: METEO 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Concurrent: MATH 251 and METEO 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO300; Concurrent: METEO431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO300 and METEO431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO300 , METEO431 , STAT 301 or STAT 401 or E B F472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411 , METEO421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO421 and METEO431 or EME 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: EME 301 , C E 360 , M E 320 , METEO454 or EGEE 470	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411 ; E B F472 or STAT 301 or STAT 401 ; E B F301 or E B F473	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO421 , METEO431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: MATH 141 , PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: STAT 200 or MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO300 , METEO421 , METEO431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisites: METEO 411 Recommended Preparation: METEO 436; METEO 437; METEO 454	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: CMPSC 101, CMPSC 201, CMPSC 202 or METEO 273	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: STAT 301 or STAT 401 or E B F472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or METEO 436	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO201 or METEO101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411 , METEO482	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO101 , or METEO200A and METEO200B , or METEO201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO 494H; junior or senior standing as a Meteorology and Atmospheric Science major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: METEO411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: 6 credits of 400-level Meteorology coursework	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Prerequisite: 9 credits of 400-level Meteorology coursework	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/meteo/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite or concurrent at Enrollment: MICRB 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/

Enforced Prerequisite at Enrollment: Admission to 2MLT program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: [(BIOL 163 and BIOL 164) or BIOL 240] and all of the following: CHEM 202 and MICBR 150 and MICRI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: [(BIOL 163 and BIOL 164) or BIOL 240] and all of the following: CHEM 202 and MICBR 150 and MICRI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: [(BIOL 163 and BIOL 164) or BIOL 240] and all of the following: CHEM 202 and MICBR 150 and MICRI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite or concurrent at Enrollment: MICRB 151A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite or concurrent at Enrollment: MICRB 151B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite or concurrent at Enrollment: MICRB 151C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite or concurrent at Enrollment: MICRB 151W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: [(BIOL 163 and BIOL 164) or BIOL 240] and all of the following CHEM 202 and MICRB 150 and MICRE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: CHEM 110 or CHEM 110H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: CHEM 110 or CHEM 110H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Concurrent at Enrollment: MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: CHEM 112 or CHEM 112H Recommended preparations MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 202H or CHEM 210 or CHEM 210H) and (MICRB 201 or MICRB 201H) and (MIC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: 8 credits in microbiology and permission of department head	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: 8 credits in MICRB courses	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M) and (MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (BMB 442 or BIOTC 459 or HORT 459 pr BIOL 459) and (MICRB 201 or MICRB 201H) and (MICRB 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (MICRB 202 or MICRB 203)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: MICRB 202 or MICRB 203 Concurrent Courses: MICRB 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (MICRB 410 or VBSC 410)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (BMB 252 or MICRB 252 or BMB 252H) or (BIOL 230W or BIOL 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
RECOMMENDED PREPARATIONS: MICRB 410 or VBSC 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite At Enrollment: (BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M) and (MICRB 201 or MICRB 201I	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (BMB 252 or MICRB 252 or BMB 252H or BIOL 230W or BIOL 230M) and (BIOL 222 or BIOL 322) REC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/micrb/
Enforced Prerequisite at Enrollment: (CHEM 110 or CHEM 106) and MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
Enforced Prerequisite at Enrollment: MNPR 301 and (MATH 250 or MATH 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
Enforced Prerequisite or Concurrent at Enrollment: MNPR 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
Enforced Prerequisite at Enrollment: EME 301 or MATSE 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mnpr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: EMCH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Concurrent at Enrollment: MNG 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: MNG 404 and MNG 422 and MNG 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: MNG 230 and MNG 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/

Enforced Prerequisite at Enrollment: STAT 401 Enforced Concurrent at Enrollment: MNG 230		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: (CE 360 or EME 303) and MNG 230 Enforced Concurrent at Enrollment: ME 201		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: MNG 230 and MNG 404		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: MNG 331 and MNG 404 and MNG 412 and MNG 422 Enforced Concurrent at Enrollment: MNG 410 a		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
Enforced Prerequisite at Enrollment: Prior approval of program		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mng/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: PHYS 150		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: MNG T030		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: MNG T204		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: MNG T204		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: PHYS 150 , MNG T030 , MATH 082		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: PHYS 150		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: MNG T204		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Prerequisite: MNG T110		https://bulletins.psu.edu/university-course-descriptions/undergraduate/mngt/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	United States Cultures (US)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	Honors	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	International Cultures (IL)	
	General Education: Arts (GA)	
	GenEd Learning Objective: Global Learning	
	GenEd Learning Objective: Integrative Thinking	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Effective Communication	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	First-Year Seminar	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Enforced Prerequisite at Enrollment: MUSIC 50		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts		https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
	General Education: Arts (GA)	
	GenEd Learning Objective: Creative Thinking	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	

Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: Permission of Instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/

Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 121 Enforced Concurrent at Enrollment: MUSIC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 131 Enforced Concurrent at Enrollment: MUSIC 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Concurrent at Enrollment: MUSIC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 181	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: KEYBD 120 or KEYBD 130 or consent of supervising faculty member	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Cross-listed with: AFAM 207N Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/

Cross-listed with: ENGL 208N United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 151	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 153	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 154	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 154	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 154	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 154	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 154	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 131 and MUSIC 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 132 and MUSIC 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 221 and MUSIC 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 240 and 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 221 and MUSIC 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 222 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 240 and MUSIC 295A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 240 and MUSIC 341. Enforced Concurrent at Enrollment: MUSIC 395B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 266 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 240 Enforced Concurrent at Enrollment: MUSIC 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 341 and MUSIC 395A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/

Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 89 or MUSIC 104	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Concurrent at Enrollment: STRNG 320 or STRNG 321 or STRNG 322 or STRNG 323 or STRNG 324 or STRNG 330 or STRNG 33	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Concurrent at Enrollment: WWNDS 320 or WWNDS 321 or WWNDS 322 or WWNDS 323 or WWNDS 324 or WWNDS 330 or WW	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Concurrent at Enrollment: BRASS 320 or BRASS 321 or BRASS 322 or BRASS 323 or BRASS 324 or BRASS 330 or BRASS 331	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC152 or PERCN 320 or PERCN 330 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: VOICE 270 or VOICE 280 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: KEYBD 270 or KEYBD 280 or MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: INART 258A or INART 258B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 222 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: KEYBD 270 or KEYBD 280 or MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: INART 258A or INART 258B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Recommended Preparations: INART 50Z	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 345 and MUSIC 395B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 345 and MUSIC 395B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 345 and MUSIC 387 and MUSIC 395B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 395B and MUSIC 345	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 395B and MUSIC 345	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 345 and MUSIC 395B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 345 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: INART 258A or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: INART 258A and INART 50Z	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: INART 258A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 127	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 261 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 261 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 261 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 221 and MUSIC 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: Seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 231 and MUSIC 262	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 262 and MUSIC 332	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 194 or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: (MUSIC 190 or MUSIC 191 or MUSIC 192) and 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 193 or equivalent or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/

Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 441W or MUSIC 442W or MUSIC 443W or MUSIC 444W or MUSIC 445W or MUSIC 446W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 441W or MUSIC 442W or MUSIC 443W or MUSIC 444W or MUSIC 445W or MUSIC 446W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Enforced Prerequisite at Enrollment: MUSIC 441W or MUSIC 442W or MUSIC 443W or MUSIC 444W or MUSIC 445W or MUSIC 446W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/music/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/brass/
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Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/keybd/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/keybd/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/keybd/
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Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/percn/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/percn/
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Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Prerequisite: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Prerequisites: Permission of Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 184 Guitar Performance II	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: STRNG224J and permission of faculty jury	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 234 Guitar: Performance III	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 284 Guitar: Performance IV	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 334 Guitar: Performance V	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 384 Guitar: Performance VI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
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Prerequisite: Acceptance into program by faculty jury permission and STRNG 434 Guitar: Performance VII	https://bulletins.psu.edu/university-course-descriptions/undergraduate/strng/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/voice/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/voice/
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Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/

Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
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None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wwnds/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
Prerequisite: NAVSC 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
Prerequisite: NAVSC 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
Prerequisite: NAVSC 200 and (NAVSC 401 or 411)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
Prerequisite: 6 credits of Navy ROTC courses	https://bulletins.psu.edu/university-course-descriptions/undergraduate/navsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: MATH 251 Enforced Concurrent at Enrollment: (MATH 230 or MATH 232) and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 301 and NUCE 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: MATH 251 Enforced Concurrent at Enrollment: MATH 230 or MATH 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: Fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: CHEM 110 Enforced Concurrent at Enrollment: EMCH 212 and MATH 251 and (MATH 230 or MATH 2	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 321 or ME 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: MATH 250 or MATH 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/

Enforced Prerequisite at Enrollment: NUCE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: CHEM 452 or PHYS 237 or NUCE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: (ME 300 or ME 201) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 301 or NUCE 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 301 or NUCE 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 302 Enforced Concurrent at Enrollment: ME 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 403 and NUCE 430 Enforced Concurrent at Enrollment: ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: NUCE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: (NUCE 301 or NUCE 405) and NUCE 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: EE 212 and NUCE 450	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: ME 320 and MATH 251 and NUCE 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: MATH 251 and Grad Standing. Enforced Concurrent at Enrollment: (MATH 230 or MATH 232) and PH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: (C or better in EE 330) or PHYS 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
Enforced Prerequisite at Enrollment: Junior or senior status in the University Scholars Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nuce/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended preparation: (STAT 200 or STAT 250) and NURS 225 and NURS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended preparation: (STAT 200 or STAT 250) and NURS 225 and NURS 390	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 250 and NURS 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 250 and NURS 251 and Enforced Concurrent: NURS 225	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: Enrollment in GNURS or SCND Option of the Baccalaureate Nursing Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: BIOL 161 and BIOL 163	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: BIOL 161 and BIOL 163	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 200M and NURS 225 and Admission to the Honors Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 225 and NURS 230. Recommended Corequisite: NURS 305 and NURS 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: 6th semester standing and NURS 225 and NURS 301 and NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS 250, NURS 225, NURS 230, and NURS 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: (NURS 225 and NURS 230) or approval of program. Recommended Corequisites: NURS 301 and NUF	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 and NURS 225 and NURS 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 225 and NURS 230. Recommended Corequisites: NURS 301 and NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Cross-listed with: SUST 325N General Education: Health and Wellness (GHW) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: (NURS 225 and NURS 230)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS major and NURS 301 and NURS 310 and NURS 306 and NURS 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS Major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: PSYCH 100 or SOC 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/

Recommended Preparations: (BIOL 161, BIOL 163)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparations: (BIOL 161, BIOL 163)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 and NURS 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: BBH 143 or PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS 250, NURS 225, and NURS 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended preparation or concurrent: NURS 245 and NURS 409	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended preparation or concurrent: NURS 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS major and NURS 390 and NURS 357	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 and NURS 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation or Concurrent: NURS 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparations: NURS 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 430	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 or NURS major	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: PSYCH 100 or SOC 1 or HDFS 129 or (NURS 230 and NURS 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 and NURS 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 305 and NURS 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: BIOL 141 or PSYCH 100 or WMNST 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 357. Recommended Concurrent: NURS 458	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: PSYCH 100 or SOC 1 or HDFS 129	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: PSYCH 100 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS major and NURS 390 and NURS 357	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: CMAS 258	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: PSYCH 100 or SOC 1 or HDFS 129	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS major or NURS 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparation: NURS major and concurrent NURS 417 or NURS 465	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Enforced Prerequisite at Enrollment: NURS 405A and enforced concurrent NURS 405B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Recommended Preparations: BIOL 161 BIOL 163	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nurs/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Corequisite at Enrollment: PSU 14 co-required (linked) course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
United States Cultures (US) General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: (CHEM 202 or CHEM 202H or CHEM 210 or CHEM 210H) Corequisites: BMB 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/

General Education: Health and Wellness (GHW) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
General Education: Health and Wellness (GHW) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisites at Enrollment: (NUTR 251 and CHEM 202) or (NUTR 251 and CHEM 210)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251 Concurrent Courses: NUTR 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251 and (CHEM 110 or CHEM 130)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Concurrent at Enrollment: HM 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: CHEM 202 and NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 360 Concurrent at Enrollment: NUTR 361 and NUTR 358	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 391	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 358 Concurrent Courses: NUTR 446	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251 and (NUTR 360 or BBH 316 or HDFS/SOC 210)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: 5th semester standing NUTR 358	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 175Z or NUTR 175	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: BMB 211 and NUTR 251 and NUTR 211R and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 445	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 445 or NUTR 372 Recommended Preparation: BIOL 161/162 and 163/164 with a C or higher a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 445 or NUTR 372	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Concurrent at Enrollment: NUTR 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: (NUTR 251 or BIOL 161) and (BIOL 163 or BIOL 141 or PSYCH 260 or PSYCH 260A) Recommended F	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 407	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Concurrent at Enrollment: NUTR 452 Recommended Preparations: ENGL 202A or ENGL 202C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Enforced Prerequisite at Enrollment: NUTR 391	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/nutr/
Prerequisite: 6 credits in any psychology course and 3 credits in any sociology or anthropology course.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/os/
Prerequisite: 6 credits in any psychology course and 3 credits in either sociology or anthropology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/os/
Prerequisite: 6 credits of psychology courses and 3 credits of sociology or anthropology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/os/
Prerequisite: 6 credits of psychology and 3 credits of either sociology or anthropology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/os/
Prerequisite: 9 credits in psychology courses and 3 credits of either sociology or anthropology courses.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/os/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/

First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite or Concurrent at Enrollment: OT 100S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 100S and OT 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 103 and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164 and Concurrent Courses: OT 207 an	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 103 and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164 and Concurrent Courses: OT 205 an	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 103 and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164 and Concurrent Courses: OT 205 an	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 205 and OT 207 and OT 209 and OT 195E Concurrent Courses: OT 212 and OT 214 and OT 216 a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 205 and OT 207 and OT 209 and OT 195E Concurrent Courses: OT 210W and OT 214 and OT 216	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 205 and OT 207 and OT 209 and OT 195E Concurrent Courses: OT 210W and OT 212 and OT 216	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 205 and OT 207 and OT 209 and OT 195E Concurrent Courses: OT 210W and OT 212 and OT 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: successful completion of all didactic course work and successful completion of OT 295A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 195E Concurrent Courses: OT 210W and OT 212 and OT 214 and OT 216	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Enforced Prerequisite at Enrollment: OT 395A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ot/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisite: 6th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisites: OLEAD 100; or 6th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisites: OLEAD 100; or 6th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisite: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisite: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisite: OLEAD100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Prerequisite: OLEAD100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/olead/
Enforced Prerequisite at Enrollment: (PHYS 211 or PHYS 250) Enforced Concurrent at Enrollment: GEOSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PHYS 211 and PNG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PHYS 211 Enforced Concurrent at Enrollment: PNG 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PNG 405 and PNG 406 Enforced Concurrent at Enrollment: EME 301 and EME 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: [MATH 251 or (MATH 250 and MATH 252)] and PNG 410 and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: [MATH 251 or (MATH 250 and MATH 252)] and PNG 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: [MATH 251 or (MATH 250 and MATH 252)] and PNG 410 and (CMPSC 200 or CMPSC 201)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Concurrent at Enrollment: PNG 405 and PNG 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: (EME 303 or CE 360 or ME 320) and [EMCH 210 or (EMCH 211 and EMCH 213)]	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: (EME 303 or CE 360 or ME 320) and [EMCH 210 or (EMCH 211 and EMCH 213)] Enforced Concurrer	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/

None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: EMCH 210 and Enforced Concurrent at Enrollment: PNG 410		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: EME 301 and EME 303		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: EME 301 and EME 303. Enforced Concurrent at Enrollment: PNG 480		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: EME 303 and Enforced Concurrent: EMCH 210		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PNG 430 and PNG 440W and PNG 450 and EME 460		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PNG 450 and PNG 475 and PNG 490		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Enforced Prerequisite at Enrollment: PNG 491 and EME 460		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Honors		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
None		https://bulletins.psu.edu/university-course-descriptions/undergraduate/png/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Cross-listed with: CMLIT 6		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: Humanities	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: World Cultures	
	International Cultures (IL)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Cross-listed with: WMNST 8		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: Humanities	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	United States Cultures (US)	
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Quantification		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Quantification (GQ)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH)	
	GenEd Learning Objective: Crit and Analytical Think	
	GenEd Learning Objective: Soc Resp and Ethic Reason	

Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: CAMS 16 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: ENGL 015 or ENGL 030H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: ENGL 015 or ENGL 030H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/

Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: PSYCH 120N, SOC 120N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	
Prerequisite: third-semester standing		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	
Prerequisite: ENGL 015 or ENGL 030H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	
Prerequisite: ENGL 015 or ENGL 030H		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	
Cross-listed with: SC 205N		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	
Cross-listed with: BIOET 100		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
	Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	

Cross-listed with: METEO 133N, RLST 133N	General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: FDSC 134	Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: JST 135, RLST 135	Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
General Education: Arts (GA)	General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
General Education: Humanities (GH)	General Education: Health and Wellness (GHW) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: LTNST 139	Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities		https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: CAMS 200	Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/

Cross-listed with: STS 233 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: ENGL 15; or any PHIL course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where three are from PHIL 205; or 6 credits in philosophy where all are at t	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where at least three are from PHIL 102 or 204; or 6 credits in philosophy w	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: PHIL 118	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: [(PHIL 103 or PHIL 108) and (PHIL 107 or PHIL 110 or PHIL 125 or PHIL 126 or PHIL 127)] or (9 credits in PHIL, at least 6 at th	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where three are PHIL 105; or 6 credits in philosophy where all are at the 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where three are from PHIL 107; or 6 credits in philosophy where all are at t	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where at least three are from PHIL 002 or 108; or 6 credits in philosophy w	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including PHIL 109 or 6 credits of philosophy at the 200 level, or 3 credits of art or 5th semester star	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy where at least 3 credits are from PHIL 011 or 110; or 6 credits in philosoph	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits in philosophy where three credits are from PHIL 006 or 109 or 113; or 6 credits in philosc	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits in philosophy where three credits are fro PHIL 108; or 6 credits in philosophy where all si	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy, to include either PHIL 003 or 103; or 6 credits in philosophy at the 200-le	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including PHIL 103 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including PHIL 124 or 6 credits of philosophy at the 200 level or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including PHIL 125 or 6 credits of philosophy at the 200 level; in addition to ENGL 15 or ENGL 30H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits in philosophy, including PHIL 126 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits in philosophy where three credits are from PHIL 127; or 6 credits in philosophy where bo	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Enforced Prerequisite at Enrollment: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Cross-listed with: STS 433 Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits of philosophy including either PHIL 011 or PHIL 110 or PHIL 124; or 6 credits of philosop	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including 6 credits of philosophy at the 200 level or 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy; or 6 credits in philosophy where three credits are from PHIL 008 or 114; or 6 credits in philosophy wh	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits in PHIL; or 3 credits of PHIL 7 plus any 3 additional credits of PHIL; or 9 credits of ASIA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including either PHIL 200 or 6 credits of philosophy at the 200 level; or 9 credits of any combination o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, which is to include either PHIL 202 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, which include either PHIL 203 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, which includes either PHIL 204 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, which are to include either PHIL 208 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: AFAM 100 or PHIL 009 and 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, where 3 of those credits are PHIL 200 or 6 of those credits are PHIL 200-level courses or 9 credits of a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, including PHIL 135 or 6 credits at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits in RLST and/or PHIL, or 6 credits of PHIL at the 200-level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including either PHIL 202 or PHIL 203 , or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits in philosophy, including PHIL 202 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including PHIL 203 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: One course in either JST or PHIL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisite: 9 credits of philosophy, including either PHIL 203 or 6 credits of philosophy at the 200 level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Prerequisites: 9 credits of philosophy, including PHIL 102 or 204 or 402 or 457	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phil/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/

General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Cross-listed with: ARTH 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: Students in ARCBS_BS or BARCH majors or by permission of the program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 300 or PHOTO 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
Enforced Prerequisite at Enrollment: PHOTO 200 or PHOTO 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/photo/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Concurrent at Enrollment: (PT 100 or PT 100S) and BIOL 161 and BIOL 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better required in (PT 100 or PT 100S) and PT 120 Enforced Concurrent at Enrollment: F	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in (PT 100 or PT 100S) and PT 120 Enforced Concurrent at Enrollment: PT 384	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite or Concurrent at Enrollment: PT 250 and PT 260 and PT 395E and [PT 280 or PT 280W or (PT 281 and PT 282) or (P	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in PT 384 and (PT 270 or PT 270A or PT 270W). Enforced Prerequisite or Concurr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in PT 384 and (PT 270 or PT 270A or PT 270W). Enforced Prerequisite or Concurr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequiste at Enrollment: Grade of C or better in BIOL 129	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequiste at Enrollment: Grade of C or better in PT 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequiste at Enrollment: Grade of C or better in PT 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: (PT 100 or PT 100S) and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: (PT 100 or PT 100S) and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: (PT 100 or PT 100S) and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: (PT 100 or PT 100S) and BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: PT 271 or PT 271W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in (PT 100 or PT 100S) and PT 120. Concurrent Courses: PT 384 and (PT 270 or F	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in (PT 100 or PT 100S) and PT 120. Concurrent Courses: PT 384 and (PT 270 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in (PT 100 or PT 100S) and PT 120 Concurrent Courses: PT 384 and (PT 270 or P	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in: PT 281 and (PT 270W or PT 271W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in PT 281 and (PT 270 or PT 271) and Concurrent Courses: PT 272	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: C or better is required: PT 150 and PT 160 and PT 290 and one of the following: PT 270 or PT 270W o	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/

Enforced Prerequisite at Enrollment: Grade of C or better in PT 100 or PT 100S and Concurrent Courses: PT 150 and PT 160 and (PT 270 c	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: PT 100 or PT 100S (grade of C or better required) Enforced Concurrent at Enrollment: PT 150, PT 160,	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in BIOL 161 and BIOL 162 and Concurrent Course: PT 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in (PT 100 or PT 100S) and PT 120 and Concurrent Courses: PT 150 and PT 160	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: Grade of C or better in PT 250 and PT 260 and (PT 280 or PT 280W or PT 282 or PT 282W) and (PT 27	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Enforced Prerequisite at Enrollment: A grade of C or better in PT 395F or (PT 395H and PT 395I)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Prerequisites: Grade of C or higher in PT 290 PT 395E; Concurrent Courses: PT 250 PT 260 PT 270; or PT 270W; or PT 272 PT 280; or PT	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Prerequisites: Grade of C or higher in PT 395H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pt/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Cross-listed with: SCIED 114	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Prerequisite: 1 1/2 units of algebra. Prerequisite or concurrent: MATH 021 or MATH 081	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Concurrent at Enrollment: MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Concurrent at Enrollment: MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 140 and PHYS 211 Concurrent Courses: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 140 and PHYS 211 Concurrent Courses: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 140 and PHYS 211 Concurrent Courses: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 141 and PHYS 211 and PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 212 and MATH 141 Prerequisite or concurrent: MATH 220 and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 212 or Concurrent: PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Prerequisite: PHYS 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (MATH 22 and MATH 26) or MATH 40 or MATH 41 or MATH 81 or MATH 82 or MATH 140 or satisfactor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 250 or PHYS 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 220 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 212 and PHYS 213 and PHYS 214 and (MATH 250 or MATH 251) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (MATH 250 or MATH 251) and PHYS 212 and PHYS 213 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (MATH 250 or MATH 251) and (MATH 230 or MATH 231) and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 231 Concurrent at Enrollment: PHYS 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 230 and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (MATH 230 or MATH 231) and (MATH 250 or MATH 251) and PHYS 212 and PHYS 213 and PHYS 214	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Cross-Listed Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (MATH 250 or MATH 251) and (MATH 230 or MATH 231) and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: (CMPSC 200 or CMPSC 201 or CMPSC 121 or CMPSC 131) and (MATH 230 or MATH 231) and (MATI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 337	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Concurrent at Enrollment: PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 212 and PHYS 213 and PHYS 214 and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 212 and PHYS 213 and PHYS 214 and (MATH 250 or MATH 251) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 211 or PHYS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: MATH 140 or BIOL 230W or BMB 251 or BME 201. Recommended Preparation: MATH 140B or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Enforced Prerequisite at Enrollment: PHYS 211 and PHYS 212 and PHYS 213 and PHYS 214 and PHYS 237	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/

Enforced Prerequisite at Enrollment: PHYS 237 and PHYS 400 and PHYS 419 and (MATH 250 or MATH 251) and (MATH 230 or MATH 231)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/phys/
Cross-listed with: ANTH 129N, HIST 129N Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences Bachelor of Arts: World Cultures General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Prerequisite at Enrollment: BIOL 110 or SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Prerequisite at Enrollment: AGRO 28	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Concurrent at Enrollment: AGRO 423 and AGRO 425 and AGRO 438	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Prerequisite at Enrollment: 6th Semester standing and (AGRO 28 or HORT 101) and (AGECO 201 or PLANT 200 or HORT 202) an	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Prerequisite at Enrollment: Junior or senior status, approval of a Plant Science faculty supervisor, and approval of the Undergradu	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of a Plant Science honors advis	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plant/
General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Cross-listed with: ART 170N General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Recommended Preparation: 3 credits of high school biology are recommended	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: TURF 235	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110 and SC 120N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110 and (AGECO 201 or BIOL 127 or BIOL 220W or BIOL 220M or BIOL 222 or BIOL 230W or B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110 or (BIOL 11 and BIOL 12) or (CHEM 112 and CHEM 113)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: (BIOL 110 or FOR 308) and 5th Semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 220W and MICRB 201 Recommended Preparations: BIOL 463 or MICRB 413	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: BIOL 110 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
Enforced Prerequisite at Enrollment: MICRB 201 or MICRB 201H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/

Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppem/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: (MATH 081 and MATH 041) or MATH 140 or Prerequisite or concurrent: CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Concurrent at Enrollment: PLET 205	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: (PLET 50 or EDSGN 100S) and PLET 205 and PLET 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 222 or Prerequisite or concurrent: EGT 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: Prerequisite or concurrent: PLET 232	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 206W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 227 and PLET 304 Enforced Concurrent at Enrollment: PLET 350 and MET 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 206W and PLET 227 and PLET 232 and PLET 235 and PHYS 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 366	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: MET 213 and PLET232 and PLET304 and PLET330. Prerequisite or concurrent: MET 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: MATH 083 and PHYS 250 and PLET 222 and PLET 227. Prerequisite or concurrent: PLET 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 205 and PLET 222	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment PLET 350 and MET 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Prerequisites: PLET 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 350	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 380 and PLET 350 or Concurrent: PLET 481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 304 and PLET 380	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: PLET 380	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment or Concurrent: MET 418 and PLET 350 and PLET 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plet/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
Recommended Preparations: Consultation with instructor and prior study of elementary Polish is recommended.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
Recommended Preparations: Equivalent of one year of Polish study - recommended consultation with instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pol/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/

Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: ANTH 60N, JST 60N, SOC 60N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/

Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Concurrent: PHIL 10	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Recommended Preparations: Any humanities or social sciences course, prior or current registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: ENGL 183N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Recommended Preparation: PLSC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 1 or PLSC 1H or PLSC 1S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: CAS 209 Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/

Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: KINES 222N, PUBPL 222N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisites: PLSC 1 or PLSC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisites: PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: STS 235 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Arts International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
RECOMMENDED PREPARATIONS: CRIMJ 12 PLSC 3 CRIMJ 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: any 3 credits in Political Science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: any 3 credits in political science	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: ANY 3 CREDITS IN POLITICAL SCIENCE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 or PL SC003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC 001; PL SC 003; PL SC 014; or PL SC 022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Enforced Prerequisite at Enrollment: PLSC 1 or PLSC 7 or CAS 101N or CAS 137H or ENGL 137H or CAS 215 or CAS 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC003 , or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: ECON 102 , ECON 104 , ECON 014 , I B 303 , or BUS 364	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits from: PL SC003 , PL SC014 , PL SC155 , or RUS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC002 , or PUBPL304W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , PL SC155 , or RUS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits from PL SC003 , PL SC020 , PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/

Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits in political science or women's studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , and PL SC309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC017 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC017 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC017 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC017 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 or HIST 020 or PL SC017	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014 , PL SC003 , AFR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC017 , or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: CRIMJ100 or PL SC014 , or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Enforced Prerequisite at Enrollment: AFAM 100N or AFR 110 or PLSC 3 or PLSC 14 or PLSC 200N or PLSC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerquisite: AFR 110N; PLSC 1; PLSC 3; PLSC 7N; PLSC 14; PLSC 17N; PLSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits in political science or economics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: AAA S 100 level course and PL SC001 or PL SC007	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 ; PL SC003 ; or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 and PL SC309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , PL SC007 or PL SC014 or HIST 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC003 , or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , PL SC020 , PL SC022 , or PL SC155	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , PL SC020 , or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits from: AFR 110 , PL SC003 , PL SC020 , or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 or PL SC020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: HIST 179 , PL SC003 , PL SC020 , or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits from PL SC003 , PL SC020 , PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: 3 credits in natural sciences or engineering, 3 credits in social and behavioral sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 or PL SC020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC017 , PL SC007 , PL SC413 , or PL SC452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: AFR 110 or at least one of the following: PL SC003 or PL SC014 or PL SC022	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Cross-listed with: ASIA 465Y International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC003 , PL SC014 , or PSYCH100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014 or HIST 181	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC003 , PL SC022 , PL SC409 , CAS 409 , CAS 175 , CAS 201 , CAS 272 , COMM 100 or COMM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , PL SC014 , PL SC022 or ASIA 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , and PL SC309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 3 or PLSC 14 or ASIA 100Z	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PLSC 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014 or INTST100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisites: PLSC 14 or PLSC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: ASIA 100; ASIA 101; ASIA 102; ASIA 103; ASIA 104; ASIA 172; ASIA 174; ASIA 175; ASIA 197; JAPNS 120; JAPNS 121; CHN	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/

Prerequisite: PL SC003 or PL SC014	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC001 , PL SC002 , or PUBPL304W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC014 , PL SC091	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: prior consent of supervisor, adviser, or department head; applicable departmental internship requirements such as satisfac	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Prerequisite: PL SC003 , 3 credits in economics, history, political science, or sociology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/plsc/
Enforced Prerequisite at Enrollment: CHEM 210 Enforced Corequisite at Enrollment: MATSE 202	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: MATSE 445	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Corequisite at Enrollment: PES 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: MATSE 445 Enforced Concurrent at Enrollment: MATSE 447	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: PES 213 Enforced Corequisite at Enrollment: PES 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: PES 213 Enforced Corequisite at Enrollment: PES 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: MATSE 202 Enforced Corequisite at Enrollment: MATSE 445 and PES 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: PES 213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: MATSE 447 and PES 365 Enforced Corequisite at Enrollment: PES 460	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Corequisite at Enrollment: PES 440	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Prerequisites: PES 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Prerequisites: PES 365 PES 446W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Prerequisites: PES 365 PES 447W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Enforced Prerequisite at Enrollment: MATSE 447 and PES 365	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pes/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 051 and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Recommended Preparation: Students should have a high level of proficiency in, or be native or heritage speakers of, a Romance language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisites: PORT 3; PORT 123;	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisites: SPAN 3 or SPAN 3H or SPAN 20 or IT 3 or IT 20 or PORT 3 or PORT 123	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 200 or PORT 405 Concurrent: PORT 405	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: PORT 3 or PORT 123	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Prerequisite: Minimum 4th semester standing. Students counting this course toward their Portuguese minor must have taken or be concur	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/port/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/

First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psu/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Cross-listed with: PHIL 120N, SOC 120N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Cross-listed with: ANTH 150N Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Cross-listed with: ANTH 150Q Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Cross-listed with: BIOL 169N General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/

Cross-listed with: COMM 175N General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and MATH 21	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 Recommended Preparation: Due to the service learning component of this course, studer	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 Recommended Preparations: PSYCH 270	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Prerequisite: PSYCH100 or 3 credits of GS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Cross-listed with: BBH 203	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Recommended Preparation: EDPSY 14 or PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (ANTH 21 or BISC 2 or BIOL 133 or BIOL 222)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: Invitation of Program Honors Committee	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or STAT 200 or PSYCH 200 or EDPSY 101 or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or STAT 200) and PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: (PSYCH 100 or SOC 1) and (PSYCH 200 or STAT 200) and PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and 6 credits of PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 413 or PSYCH 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: HDFS 249 and (HDFS 312W or PSYCH 301W) and (PSYCH 200 or STAT 200 or 3 credits in STAT) and	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/

Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 221 or PSYCH 231 or PSYCH 238 or PSYCH 243 or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 221 or PSYCH 232 or PSYCH 238 or PSYCH 243 or PSYCH 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 1 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 221 or PSYCH 232 or PSYCH 238 or PSYCH 243 or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or RLST 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 221 or PSYCH 238 or PSYCH 243 or PSYCH 269 or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 221 or PSYCH 232 or PSYCH 238 or PSYCH 243 or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or PSYCH 253 or PSYCH 256 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Prerequisite: PSYCH 100 and PSYCH 301W and fourth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 256	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 256	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 256 or PSYCH 260A Recommended Preparation: PSYCH 200 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 253 or PSYCH 256 or PSYCH 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or LING 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 253 or PSYCH 256 or PSYCH 260)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 or PSYCH 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 253 or PSYCH 256 or PSYCH 261)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 260 or BIOL 110)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (ANTH 21 or BISC 2 or BIOL 133 or BIOL 222)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 Recommended Preparation: PSYCH 200 and PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 Recommended Preparation: PSYCH 270	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 221 or PSYCH 238 or PSYCH 243 or PSYCH 269 or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Prerequisites: PSYCH 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 261	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH100 and (PSYCH 212 or PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 212 or PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 260	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 477	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 238 or PSYCH 243 or PSYCH 270)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or STAT 200) and PSYCH 281	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and (PSYCH 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 281	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 301W Enforced Concurrent at Enrollment: PSYCH 406W or PSYCH 490	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 300 or PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 300 or PSYCH 301W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Enforced Prerequisite at Enrollment: PSYCH 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/psych/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/php/
Recommended Preparations: Any humanities or social sciences course, prior or current registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Cross-listed with: HLS 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Cross-listed with: KINES 222N, PLSC 222N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Cross-Listed Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: fourth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Cross-listed with: HLS 306	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Concurrent: PUBPL 304W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: PLSC 201; HLS 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: PLSC 201; HLS 404	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: seventh-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: fifth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/pubpl/
Prerequisite: CRIM 250W or permission from department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ppol/
Prerequisite: students taking this course CAN NOT be an Engineering major and must be in their senior year	https://bulletins.psu.edu/university-course-descriptions/undergraduate/qmm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/qmm/
Prerequisite: MATH 141 or MATH 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/qc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/reths/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/reths/
Enforced Co-requisite at Enrollment: BIOL 161 and BIOL 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 101 and RADSC 110 Co-requisites: BIOL 163 and BIOL 164 and RADSC 295B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 102 Co-requisites: RADSC 295C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Co-requisite at Enrollment: RADSC 101 Concurrent Courses: BIOL 161 and BIOL 162. Recommended Preparation: Clinical orient	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 103	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 204	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164 Co-requisites: RADSC 295E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Concurrent at Enrollment: RADSC 206	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: BIOL 161 and BIOL 162 and BIOL 163 and BIOL 164	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Prerequisite: admission to 2RCC program; Concurrent: RADSC 101 and RADSC 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 295A Co-requisites: RADSC 102	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 102 and RADSC 295B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 103 and RADSC 295C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 295D Co-requisites: RADSC 206	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 295E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
Enforced Prerequisite at Enrollment: RADSC 295E	https://bulletins.psu.edu/university-course-descriptions/undergraduate/radsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: ECON 102; Concurrent: RTE 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: C E 310 , C E 336; Concurrent: C E 335, C E 360	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Concurrent: RTE 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: PHYS 212 , CMPSC201 or CMPSC202; Concurrent: RTE 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/

Prerequisite: RTE 303 , RTE 305	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: RTE 302 , C E 310; Concurrent: C E 333W, C E 335	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: RTE 303 , PHYS 211 , PHYS 212 , E MCH213	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Prerequisite: C E 333W , RTE 305 , RTE 402 , RTE 403 , RTE 404 , C E 332 , 7th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rte/
Cross-listed with: KINES 1 General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Corequisite At Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Recommended Preparation: Experience or current in snowsports, consider RPTM 120 and/or RPTM 215 Snowsports Education	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Corequisite at Enrollment: PSU 14	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: Students must apply for and be accepted into the Outdoor School Field Experience.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Recommended Preparation: Experience or current employment in snowsports is recommended. Students may also wish to complete RPTI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: KINES 93 Recommended Preparation: For students enrolled in the PGA accredited Golf Management	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: 2.00 cumulative grade point average	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 199	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Recommended Preparation: RPTM 280 - Wilderness First Aid can be a helpful course to take prior to this course, as it will introduce studer	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 325	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/

Enforced Prerequisite at Enrollment: RPTM 325	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 120, Permission of program through application Recommended Preparation: Permission of pro	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 250 Recommended Preparation: For students enrolled in the PGA Accredited Golf Managemen	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 254 Recommended Preparation: For students enrolled in the PGA Accredited Golf Managemen	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: BA 304	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 295A or 2.00 cumulative grade point average	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 210 and RPTM 410 and 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 325	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 325	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite or Concurrent at Enrollment: RPTM 330	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 236 and RPTM 120 and 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 236 and RPTM 456	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 320	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 370	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 394 and RPTM 456 and 7th sem standing and 2.0 GPA. Recommended Preparation: 300 hrs p	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 395B and 2.00 cumulative grade point average	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 495B or 2.00 cumulative grade point average	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 495C or 2.00 cumulative grade point average	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Enforced Prerequisite at Enrollment: RPTM 199	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rptm/
Prerequisite: Permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: RHS 93	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: RHS 93 Concurrent: RHS 193	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Concurrents: EDPSY 101; STAT 100; STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Recommended Preparations: 6 credits in psychology, sociology, human development and family studies and/or crime, law and justice	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: RHS 300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisites: 4th semester standing or Graduate Status Recommended Preparation: 6 credits in psychology, sociology, human developme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: RHS 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisites: 4th semester standing or Graduate Status Recommended Preparation: 6 credits in psychology, sociology, human developme	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: 4th Semester Standing or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: 5th Semester standing or 3 credits of LHR or LHR 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Cross-listed with: SPLED 420 International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisites: RHS 300; CRIM 100 or Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisite: RHS 100, RHS 300, RHS 301, RHS 302 RHS 303	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Prerequisites: Recommended Preparation: Students must have successfully completed all other required coursework for the major (grade	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rhs/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ASIA 3 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 4, JST 4 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 12N, JST 12N Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 44 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 44H Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/

Cross-listed with: CAMS 70, JST 70 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 90, JST 90 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 102, HIST 102, JST 102 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ASIA 103 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ASIA 104 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ENGL 108N, SOC 130N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: JST 106 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CMLIT 108 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/

Cross-listed with: ASIA 109H Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 110, JST 110 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 111, JST 111 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 113, CMLIT 113, JST 113 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: JST 114 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: HIST 115, JST 115 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AFAM 116 Bachelor of Arts: World Cultures United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 120, JST 120 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 121, JST 112 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 122, JST 122 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/

Cross-listed with: CAMS 123, JST 123 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 124, JST 124 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: third-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: METEO 133N, PHIL 133N General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: JST 135, PHIL 135 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: WMNST 137 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AMST 140Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AFAM 145 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AFAM 146 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AFAM 147 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 153, JST 153 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/

Cross-listed with: CAMS 160, JST 160 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ARAB 164 International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ARAB 165, HIST 165 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ASIA 181 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: CAMS 194, HIST 194, JST 194 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: HIST 235, JST 235 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: WMNST 83N; WMNST 100; WMNST 105N; WMNST 106N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: HIST 409Y, JST 409Y, RLST 409Y Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: HIST 409Y, JST 409Y, RLST 407Y Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisites: Second semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: AMST 422 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: 3 credits in CAMS or J ST or RL ST, recommended CAMS/J ST/RL ST 110 or 120; or ENGL 104.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: 3 credits in CAMS, RLST, or JST.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: RL ST004 , RL ST124 , RL ST125W , RUS 100 or RUS 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: Two lower-level courses in ASIA, HIST, or RLST; or fifth-semester standing.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Enforced Prerequisite at Enrollment: 3 credits of SOC or RLST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: HIST 471Y Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisites: 9 credits in RLST and/or PHIL, or 6 credits of PHIL at the 200-level	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: One course in either JST or PHIL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Cross-listed with: ASIA 487 Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/

Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rlst/
Enforced Prerequisite at Enrollment: C or better in MATH 141 Corequisite: STAT 414 or MATH 414 Concurrent Courses: MATH 230 or MATH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: (BA 301 or FIN 301) and (MATH 110 or MATH 140) and (STAT 200 or SCM 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: FIN 301 and (MATH 110 or MATH 140) and (STAT 200 or SCM 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: 5th - 11th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: RM 302 or RM 320W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 410 and (STAT 414 or MATH 414)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 410 and (STAT 415 or MATH 415)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: C or better in RM 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: BLAW 341 or BLAW 243	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: RM 302 or RM 320W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: RM 302 or RM 303 or RM 320W or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: RM 303 or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: FIN 305W or RM 303 or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: FIN 305W or RM 303 or RM 330W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Enforced Prerequisite at Enrollment: SCM 200 or STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rm/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rsoc/
Enforced Prerequisite at Enrollment: RSOC 11 or SOC 1	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rsoc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rsoc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rsoc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rsoc/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 051 and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) First-Year Seminar General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/

Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Cross-listed with: GER 143 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 003 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 401; or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 200 or permission of program; Concurrent: RUS 400, RUS 401 , RUS 402 , RUS 405 , RUS 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 401 , RUS 402 , or RUS 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisites: RUS 401 or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: RUS 401 , RUS 402 , or RUS 403	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: basic speaking proficiency in Russian; placement test and consent of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: 9 credits of Russian at the 200 level or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisites: RUS 401, and RUS 402; or RUS 403; or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisites: RUS 100, RUS 401, RUS 402; RUS 403 Corequisites: 7th Semester standing or Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/rus/
Prerequisite: prior approval of the proposed assignment by the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sset/
Prerequisite: prior approval of the proposed assignment by the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sset/
Prerequisite: prior approval of the proposed assignement by the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sset/

Prerequisites: PSYCH 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spsy/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spsy/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: AG 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite at Enrollment: Completion or placement beyond MATH 21.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: HIST 125N General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: ENGL 142N General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
General Education: Arts (GA) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: SUST 150N General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: CMLIT 183Q General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/

Cross-listed with: PHIL 131N Bachelor of Arts: Humanities Bachelor of Arts: Natural Sciences General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite Concurrent at Enrollment: SC 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
International Cultures (IL) General Education: Natural Sciences (GN) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Prerequisite: acceptance into the Eberly College of Science co-op program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite at Enrollment: SC 295	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite at Enrollment: 5th semester standing or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite at Enrollment: ENGL 15 or CAS 100 or ENGL 137H or CAS 138T or ESL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Prerequisite: Consent of Instructors and (Biol 161 or BIOL 128 or BIOL 240W or BIOL 141 or BIOL 472 or KINES 202 or BIOL 129)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Prerequisite: 5th semester standing; BIOL 230W and BIOL 240W or equivalent; approval of health sciences committee or coordinator	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Enforced Prerequisite at Enrollment: SC 395	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sc/
Cross-listed with: ENGR 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Cross-listed with: EARTH 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Cross-listed with: PHYS 114	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Cross-listed with: ASTRO 116	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Enforced Prerequisite at Enrollment: Students must apply for and be accepted into the Outdoor School Field Experience.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Prerequisites: 5th Semester standing or Graduate Status or Non Degree Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Prerequisite: SCIED 411W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Prerequisites: 4th Semester standing Recommended Preparations: One course each in life, earth, and physical sciences (one having a lab	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Prerequisite: 7th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scied/
Cross-listed with: SOC 47 Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: AERSP 55 Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: FDSC 105 Bachelor of Arts: Social and Behavioral Sciences General Education: Health and Wellness (GHW) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/

International Cultures (IL) General Education: Humanities (GH) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: HIST 124 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: AMST 151N, HIST 151N Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Natural Sciences Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: PHIL 233 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Enforced Prerequisite at Enrollment: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Recommended Preparation: Students will have participated in a global experience abroad such as an approved study abroad program (em	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Enforced Prerequisite at Enrollment: Select 3 credits from the following: COMM 100 or COMM 110 or COMM 118 or COMM 150 or COMM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: AFAM 416 International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Enforced Prerequisite at Enrollment: 3 credits of SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Prerequisite: an introductory science course and a history course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Cross-listed with: PHIL 433 Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Prerequisite: 3 credits in natural sciences or engineering, 3 credits in social and behavioral sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sts/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 111 and (CMPSC 101 or IST 140 or CMPSC 121)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 211 and STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: C or better in STAT 200 or SCM 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/

Enforced Prerequisite at Enrollment: SRA 111 and SRA 211 and SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 211 and SRA 221 and SRA 231 and SRA 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 221 and SRA 311 and (ENGL 202C or ENGL 202D)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 111 and SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Prerequisite: IST 210, SRA 111.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 211 or SRA 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
Enforced Prerequisite at Enrollment: SRA 111 and SRA 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sra/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/slav/
Prerequisite: PL SC309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soda/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soda/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soda/
Recommended Preparation: 3rd Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
Prerequisites: GEOG 30N Recommended Preparations: Completion of at least 6 credits of Social Studies Teaching Option Requirements fo	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
Prerequisites: SSED 411 Corequisites: CI 495C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
Prerequisites: 4th Semester standing Recommended Preparation: 9 credits in history and the social sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
Prerequisite: Instructional I certificate and teaching experience	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ssed/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisites: SOCW 195	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisites: SOCW 195	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisites: SOCW 195	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisites: SOCW 195	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisite: SOCW 195 and SOCW 205 and SOCW 215 and SOCW 290	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisite: SOCW 195 and SOCW 205 and SOCW 215 and SOCW 290	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisite: SOCW 195 and SOCW 205 and SOCW 215 and SOCW 290 and STAT 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisite: SOCW 195 and SOCW 300 and SOCW 301 and SOCW 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Prerequisite: SOCW 195 and SOCW 300 and SOCW 301 and SOCW 302 and SOCW 495A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/socw/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/

Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CRIM 12, CRIMJ 12 Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CRIM 12H, CRIMJ 12H General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CRIMJ 13 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: COMM 20N General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: ANTH 60N, JST 60N, PLSC 60N International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences First-Year Seminar General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/

Cross-listed with: AFAM 103, WMNST 103 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: WMNST 110 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: PHIL 120N, PSYCH 120N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: ENGL 108N, RLST 105N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: HIST 145N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CAS 162N, ENGL 162N General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Recommended Preparations: Any humanities or social sciences course, prior or current registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CRIM 201 General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/

Recommended Preparations: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: ENGL 15	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: AFR 209 International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: ENGL 15 and CAS 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: CMAS 258N, HDFS 258N General Education: Health and Wellness (GHW) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: ENGL 15 and COMM 150 Recommended Preparations: ENGL 202A or ENGL 202B or ENGL 202C or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: Sociology major and junior standing and admission to the Schreyer Honors College	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 470	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits of SOC or CRIM or CRIMJ	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 12 or SOC 13 or SOC 5	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: (SOC 12 or CRIM 12) and CRIMJ 250W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: CRIMJ 12 or CRIMJ 13 or SOC 5	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: EDTHP 416 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/

Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 23 or SOC 422	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC or PSYCH or SOCW or PUBPL or PLSC or CRIM	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 6 credits in HDFS or 6 credits in PSYCH or 6 credits in SOC or (3 credits in HDFS and 3 credits in PSY	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits of SOC or HDFS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Cross-listed with: EDTHP 447 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Prerequisite: 90 credits, graduate status, or permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: Three credits in JST or ANTH or SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 12 or CRIM 12	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits of SOC or RLST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 207 or CRIM 250W Recommended Preparation: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: CRIM 12 or CRIMJ 12 or CRIMJ 100 or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 369	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: SOC 207	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC Recommended Preparation: 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: Sociology major, senior standing, and admission to the Schreyer Honors College	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Bachelor of Arts: Social and Behavioral Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soc/
Enforced Prequisite at Enrollment: CMPSC 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: Senior standing or above	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: CMPSC 122 and Concurrent: SWENG 311	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 411 and (STAT 301 or STAT 318)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: CMPSC 472 or CMPSC 473 or CMPEN 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 411	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 311 or CMPSC 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 431	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: SWENG 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/

International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sweng/
General Education: Natural Sciences (GN) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Bachelor of Arts: Natural Sciences General Education: Natural Sciences (GN) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Concurrent at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: CHEM 110 and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101 or equivalent	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: BIOL 11 or BIOL 127 or BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: (BIOL 11 and BIOL 12) or BIOL 110 or BIOL 127 or BISC 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: CHEM 112 and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: (CHEM 110 and CHEM 111 and CHEM 112) or CHEM 202 or CHEM 210	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: SOILS 101 and approval of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: permission of the SOILS program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: Enrollment in the Schreyer Honors College and permission of a SOILS honors adviser	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/soils/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 010	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 051 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 052 or equivalent, and graduate standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities International Cultures (IL) First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 003 or SPAN 020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: placement	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 003 or SPAN 020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: World Language (All) Bachelor of Arts: World Lang (12th Unit) Honors Exceeds 12th Unit of World Language	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 003 or SPAN 020	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/

Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities Bachelor of Arts: World Cultures International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Cross-listed with: AFAM 132, AFR 132 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100 or by placement	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisites: SPAN 3 or SPAN 3H or SPAN 20 or IT 3 or IT 20 or PORT 3 or PORT 123	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100 or SPAN 100A or SPAN 100B or SPAN 100C or SPAN 100H or SPAN 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100; SPAN 100A; SPAN 100B; SPAN 100C; SPAN 100H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 215 or SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite SPAN 215 or 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Cross-listed with: LTNST 315N United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Cross-listed with: LTNST 326 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 200 and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 200 and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 003	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and (SPAN 215 or SPAN 253W)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/

Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisites: SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and (SPAN 215 or SPAN 253W or SPAN 300B)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100A or SPAN 200 and SPAN 215 or SPAN 253	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: C or better in SPAN 215	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: (SPAN 100A or SPAN 200) and SPAN 253W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
Prerequisite: SPAN 100 , SPAN 110 , or SPAN 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/span/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: Admission to SPLED program. Corequisites: SPLED 401, SPLED 425, SPLED 418 Recommended Preparations: Clearances a	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: EDPSY 014, EDPSY 010; EDPSY 011; HDFS 229; HDFS 239, and fourth semester standing or higher Recommended Prepar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: EDPSY 14, EDPSY 10; EDPSY 11; HDFS 229; HDFS 239, and third semester standing or higher. Recommended Preparation	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: Admission to SPLED program COREQUISITES: SPLED 395W, SPLED 408, SPLED 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: or concurrent: SPLED400 or SPLED425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: C or better in SPLED 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: C or better in SPLED 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better in SPLED395W , SPLED401 , SPLED425 , SPLED 418; Corequisites: SPLED 411, SPLED 412, SPLED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: EDPSY 14, EDPSY 10; EDPSY 11 or Graduate Status Corequisites: SPLED 395W, SPLED 401, SPLED 425; Graduate Status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: a grade of C or better in SPLED 404, SPLED 412, SPLED 411, SPLED 454, SPLED 495E; Corequisites: SPLED 409B, SPLEI	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better in SPLED 404, SPLED 411, SPLED 412 SPLED 454, SPLED 495E; Corequisites: SPLED 409A, SPLED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better in SPLED 404, SPLED 411, SPLED 412, SPLED 454, SPLED 495E; Corequisites: SPLED 409A, SPLED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: CI 280 EDPSY 14 EDPSY 101 EDTHP 115 MATH 200 PSYCH 100 PSYCH 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: A grade of C or better in SPLED395W , SPLED401 , SPLED425, SPLED 418; Corequisites: SPLED 404, SPLED 412, SPLED	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better in SPLED 395W, SPLED 401. SPLED 425 and SPLED 418. Corequisites: SPLED 404, SPLED 411, SPLE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: Admission to SPLED program or at least a 4th semester standing for non-SPLED majors.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: Entrance to SPLED Major; Corequisites: SPLED 395W, SPLED 425, SPLED 415, SPLED 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: EDPSY 10 or EDPSY 11 or EDPSY 14 or HDFS 129 or HDFS 229 or HDFS 239 or Graduate student status	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Cross-listed with: RHS 420 International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: Admission to SPLED program Corequisites: SPLED 395W, SPLED 401 and SPLED 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better in SPLED 395W, SPLED 401, SPLED 425 and SPLED 418 Corequisites: SPLED 404, SPLED 411, SPLE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: 5th Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A C or better in SPLED 409A, 409B, 409C and 495G Corequisite: SPLED 495F	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisites: A grade of C or better in SPLED 395W , SPLED 401 , SPLED 425, SPLED 418; Corequisites: SPLED 404, SPLED 411, SPLE	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Prerequisite: A grade of C or better required in SPLED 409A, 409B, 409C and 495G Recommended Preparation: Clearances as required by	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Corequisites: SPLED 409A, SPLED 409B, SPLED 409C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/spled/
Bachelor of Arts: Quantification General Education: Quantification (GQ) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: Placement into MATH 21 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: Placement into MATH 21 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: Placement into MATH 21 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: Placement into MATH 21 or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 100 or STAT 200 or STAT 240 or STAT 250 or SCM 200 or PSYCH 200 or DS 200 or IE 323	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 318 or STAT 318 or MATH 414 or STAT 414 or STAT 418 or MATH 418	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: (STAT 200 or DS 200 or PLSC 309) and STAT 184	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 184 and MATH 220 and (STAT 300 or STAT 462)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 111 or MATH 141	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 230 or Concurrent: MATH 232 or (MATH 231 and RM 214)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 414 or STAT 414	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: (STAT 318 or MATH 318 or STAT 414 or MATH 414) and (MATH 230 or MATH 232)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: MATH 230 or MATH 231	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 and MATH 220 and (STAT 415 or MATH 415)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 or STAT 240 or STAT 250 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 or STAT 240 or STAT 250 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 or STAT 240 or STAT 250 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: (STAT 300 or STAT 462) and (STAT 318 or MATH 318 or STAT 414 or MATH 414 or STAT 418 or MATH 4	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 or STAT 240 or STAT 250 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 200 or STAT 240 or STAT 250 or STAT 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 461 and STAT 462 and 7th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 3 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Concurrent at Enrollment: STAT 480	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Concurrent at Enrollment: STAT 480 and STAT 481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 3 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 3 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Concurrent at Enrollment: STAT 484	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: STAT 300 or STAT 460 or STAT 461 or STAT 462 or STAT 500	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 6 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 6 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Enforced Prerequisite at Enrollment: 6 credits in Statistics	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/stat/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: MATH 21 or higher or satisfactory score on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: MATH 21 or higher or satisfactory score on the mathematics placement examination	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: ACCTG 211 and ECON 102 and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: ACCTG 211 and ECON 102 and (SCM 200 or STAT 200)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 or MKTG 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/

Enforced Prerequisite at Enrollment: SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: BA 302 or SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 or BA 302	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: BA 302 or SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 and (MGMT 409 or MGMT 410 or BA 421)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 404 or SCM 405 or SCM 406	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 or permission of the instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 or SCM 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Prerequisite at Enrollment: SCM 301 or SCM 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/scm/
Enforced Concurrent at Enrollment: MATH 26 or MATH 40 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Concurrent at Enrollment: MATH 26 or MATH 40 or satisfactory performance on the mathematics placement examination.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 121	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Concurrent at Enrollment: SUR 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 111 and EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122 and SUR 132 Enforced Concurrent at Enrollment: EDSGN 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122 Enforced Concurrent at Enrollment: SUR 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 121 Enforced Concurrent at Enrollment: MATH 110 or MATH 140	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Concurrent at Enrollment: (MATH 110 or MATH 140) and SUR 162	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 111	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 221 Enforced Concurrent at Enrollment: SUR 213 and SUR 373W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 241 and SUR 122 and MATH 220 Enforced Concurrent at Enrollment: (CMPSC 200 or CMPSC 20	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: MATH 141 and SUR 262	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122 Enforced Concurrent at Enrollment: (MATH 230 or (MATH 231 and MATH 232)) and (MATH 25	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122 Enforced Concurrent at Enrollment: SUR 132 and SUR 241 and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 132 Enforced Concurrent at Enrollment: SUR 222 and (MATH 110 or MATH 140)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 272	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 122 and SUR 132	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: MATH 141 and Sixth Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 213 and SUR 221 Enforced Concurrent at Enrollment: SUR 373W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 132 and SUR 222 and MATH 220	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: MATH 220 and SUR 362	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 222 and SUR 361 and SUR 241 Enforced Concurrent at Enrollment: SUR 441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 132 and SUR 222 and SUR 361	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: (STAT 200 or STAT 401) and SUR 341	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 352 and PHYS 214 and (MATH 230 or (MATH 231 and MATH 232)) Enforced Concurrent at Enrolli	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 362 and SUR 372W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 373W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: SUR 213 and SUR 221 and SUR 373W Enforced Concurrent at Enrollment: SUR 381	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
Enforced Prerequisite at Enrollment: Senior standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sur/

Cross-listed with: SC 150N General Education: Natural Sciences (GN) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: SUST 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Cross-listed with: NURS 325N General Education: Health and Wellness (GHW) General Education: Natural Sciences (GN) General Education - Integrative: Interdomain GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: at least 5th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: ESP 481	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: SUST 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Enforced Prerequisite at Enrollment: SUST 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/sust/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
Prerequisite: SWA 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
Prerequisite: SWA 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/swa/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edab/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/edab/
Bachelor of Arts: Arts First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: Audition	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/

Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 113	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: Approval by department	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 102 or THEA 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or TEHA 101N or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts United States Cultures (US) General Education: Arts (GA) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Cross-listed with: AFAM 208 Bachelor of Arts: Arts International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: DANCE 100 or THEA 100 or THEA 101N or THEA 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 113 and THEA 114 and THEA 116	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 120 or THEA 102 or THEA 115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 114 or THEA 115 or THEA 116 or THEA 212	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 223	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Concurrent at Enrollment: THEA 115 and THEA 1S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Concurrent at Enrollment: THEA 115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Concurrent at Enrollment: THEA 115	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 130 and THEA 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/

None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 201W and THEA 251 and THEA 252. Recommended Preparation: THEA 131 and THEA 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 130 and THEA 131	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts General Education: Arts (GA) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: INART 258A or THEA 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 115 or THEA 120	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 225C and THEA 322	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 120 or THEA 115 or THEA 225B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 324	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 224	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 224	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: 7th semester standing or higher or 12 credits in THEA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 115 or THEA 120 or THEA 427A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 420	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 421	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 224	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 423	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 115 and THEA 225A Enforced Concurrent at Enrollment: THEA 425C	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 225C or THEA 425A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 425C or THEA 427A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 224	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 434 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: approval of proposed assignment by instructor prior to registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 101N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 250 or portfolio review	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: (THEA 251 and THEA 252) or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 253 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 250 or THEA 260 or THEA 270 or THEA 280 or THEA 285 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 159	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 260 or THEA 464	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/

Enforced Prerequisite at Enrollment: THEA 261	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 270	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 131 and THEA 289	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisites at Enrollment: THEA 474	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 289 Enforced Concurrent at Enrollment: THEA 472	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 289	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 280	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 280	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: INART 258A or THEA 285	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 106 and THEA 150	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 289 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Bachelor of Arts: Arts	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or DANCE 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/thea/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Cross-listed with: HORT 238	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: TURF 235 Recommended Preparation: MATH 21 and SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: TURF 235 Recommended Preparation: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: TURF 235 Recommended Preparation: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: TURF 235 Recommended Preparation: SOILS 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: TURF 235 and (TURF 434 or TURF 435) Recommended Preparation: TURF 238 and TURF 425	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: Seventh semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/turf/
Bachelor of Arts: World Language (All)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
Prerequisite: UKR 001	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
Prerequisite: UKR 002	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL) General Education: Humanities (GH)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/ukr/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/

General Education: Health and Wellness (GHW) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Bachelor of Arts: Natural Sciences	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: CHEM 110 and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: ENGL 15 and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: Permission of program.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: Fifth-semester standing in an animal agriculture major. Approval by department of proposed plan befo	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: MICRB 106 or MICRB 201 Enforced Concurrent at Enrollment: ANSC 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: MICRB 106 or MICRB 201 Enforced Concurrent at Enrollment: ANSC 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: ANSC 201 and ANSC 301 and BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: ANSC 308 or ANSC 309 or VBSC 403 or ANSC 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (BMB 251 or MICRB 251 or BMB 251H or BIOL 230W or BIOL 230M	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: Third semester standing and BIOL110 or BIOL110H. Permission of the Instructor. Enforced Concurren	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: MICRB 201 and MICRB 410	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: VBSC 211 Enforced Corequisite at Enrollment: VBSC 211 and MICRB 201	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 129 or BIOL 141 or BIOL 220W or BIOL 220M or BIOL 230W or BIOL 230M or BIOL 240W or BIO	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (BMB 211 or BMB 401) and ANSC 301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (MICRB 106 and MICRB 107) or (MICRB 201 and MICRB 202) Enforced Concurrent at Enrollment: AN	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (BIOL 110 and BIOL 240W) or BMB 211 or BMB 401	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 110 and CHEM 110 and CHEM 112	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (BMB 251 or MICRB 251 or BIOL 230W or BMB 251H or BIOL 230M) and (MICRB 410 or VBSC 410)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BMB 401 or BMB 401H or BMB 211	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: (MICRB 201 or MICRB 201H) and (BMB 252 or MICRB 252 or BMB 252H) or (BIOL 230W or BIOL 230	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: CHEM 202 and CHEM 201 and BIOL 110 and (BMB 211 or BIOL 230W or BMB 251)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 110 and (STAT 200 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 220 and (STAT 200 or STAT 250) and VBSC 444	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: MICRB 410 and BMB 400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: ENT 313 or (BIOL 11 and BIOL 12) or BIOL 110 or BIOL 220W	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: MICRB 201 or BMB 251	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: VBSC 340	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: VBSC 455 and VBSC 444	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: BIOL 322 and (STAT 200 or STAT 250 or STAT 301 or STAT 401)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
Enforced Prerequisite at Enrollment: Junior or senior status in the Schreyer Honors College and permission of the Veterinary and Biomedica	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/vbsc/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
First-Year Seminar Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
Enforced Prerequisite at Enrollment: FORT 150 and WILDL 101 and WILDL 103 and WILDL 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
Enforced Prerequisite at Enrollment: WILDL 101 and (WILDL 106S or WILDL 106H) Recommended Preparations: WILDL 103	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
Recommended Preparations: WILDL 101 and WILDL 103 and WILDL 106S	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
Enforced Prerequisite at Enrollment: WILDL 103	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
Enforced Prerequisite at Enrollment: Prior approval of proposed assignment by instructor.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wildl/

Cross-listed with: FOR 150S First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Recommended Preparation: a course in high school biology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Concurrent at Enrollment: BIOL 110 and (WFS 209 or WILDL 101)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Concurrent at Enrollment: BIOL 110 and (WFS 209 or WILDL 101) and (STAT 200 or STAT 240 or STAT 250)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: C or higher in STAT 200 or STAT 240 or STAT 250	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Concurrent at Enrollment: WFS 407	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Concurrent at Enrollment: WFS 408	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Concurrent at Enrollment: BIOL 110 or WFS 209 or WILDL 101	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 220W or FOR 308 or WFS 209	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110 and BIOL 220W and CHEM 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: (WFS 209 or WILDL 101) and (STAT 200 or STAT 240 or STAT 250) Recommended Preparation: WFS 3	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Prerequisite: W F S209 or W F S309	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: (ERM 300 or WFS 209N or BE 307) and seventh semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110 Recommended Preparation: WFS 452	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: 5th Semester standing or higher and 6 credits of BIOL	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: WFS 209 and WFS 300 and WFS 301 and WFS 310	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: BIOL 110 or FOR 203 Enforced Concurrent at Enrollment: BIOL 220W or FOR 308 Recommended Pre	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: Permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: Permission of the Wildlife and Fisheries Science Program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: Permission of the Wildlife and Fisheries Science honors adviser, Schreyer Honors College	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Enforced Prerequisite at Enrollment: Approval of proposed assignment by instructor prior to registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfs/
Prerequisite: 3 credits in CAMS, RLST, or JST.	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wgss/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) First-Year Seminar	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: PHIL 8 Bachelor of Arts: Humanities General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) First-Year Seminar General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/

Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Social and Behavioral Scien (GS) Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 101N Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 102 Bachelor of Arts: Humanities International Cultures (IL) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 103, SOC 103 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AMST 104 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Global Learning GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Humanities Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/

Bachelor of Arts: Arts Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: SOC 110 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: HIST 116N Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: HIST 117 Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-Listed General Education: Humanities (GH) Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Key Literacies GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 136, LHR 136 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 136Y, LHR 136Y Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: RLST 137 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: one introductory level course in History or Women's Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: ENGL 194 Bachelor of Arts: Humanities International Cultures (IL) United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/

General Education: Arts (GA)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFR 202N Bachelor of Arts: Humanities Bachelor of Arts: World Cultures Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: COMM 205 Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: ART 207N Bachelor of Arts: Arts Bachelor of Arts: Social and Behavioral Sciences International Cultures (IL) United States Cultures (US) General Education: Arts (GA) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Creative Thinking GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 213Y, HIST 213Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Bachelor of Arts: Social and Behavioral Sciences United States Cultures (US) General Education: Social and Behavioral Scien (GS) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: ARTH 225N, ENGL 225N General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: ENGL 227 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: IST 235 United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/

Cross-listed with: CMLIT 240Q, HIST 240Q, IT 240Q International Cultures (IL) General Education: Arts (GA) General Education: Humanities (GH) General Education - Integrative: Interdomain Honors GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Global Learning GenEd Learning Objective: Key Literacies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: ENGL 245 United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Soc Resp and Ethic Reason	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: 3 credits in ANTH or BBH or CAS or COMM or CRIM or CRIMJ or GEOG or HDFS or HIST or PSYCH	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: HIST 266Y Bachelor of Arts: Humanities United States Cultures (US) General Education: Humanities (GH) GenEd Learning Objective: Crit and Analytical Think GenEd Learning Objective: Integrative Thinking GenEd Learning Objective: Key Literacies Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: FR 270 Bachelor of Arts: Humanities	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: WMNST 83N; WMNST 100; WMNST 105N; WMNST 106N	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
General Education: Social and Behavioral Scien (GS)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: (WMNST 100 or WMNST 100U or WMNST 105N or WMNST 106N or WMNST 106Q or LTNST 100)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: WMNST 105; or WMNST 100; or WMNST 106	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 303, ANTH 303 International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: AFAM 364N United States Cultures (US) General Education: Humanities (GH) General Education: Social and Behavioral Scien (GS) General Education - Integrative: Interdomain GenEd Learning Objective: Effective Communication GenEd Learning Objective: Crit and Analytical Think	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: WMNST 083; WMNST 100; WMNST 105; WMST 106; WMNST 301,	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: WMNST100 , or WMNST106 , or WMNST005 and WMNST301	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: THEA 100 or THEA 105 or THEA 106 or THEA 112 or DANCE 100 or THEA_MFA	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Cross-listed with: EDTHP 412	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 30H or ENGL 137H or CAS 137H	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: CRIMJ100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: PSYCH 100 or SOC 1 or WMNST 100 or KINES 100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: (GEOG 220 or GEOG 20 or GEOG 2N or WMNST 100) and (C or higher in ENGL 15 or ENGL 30H or ENGL 137H or CAS 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: 3 credits in political science or women's studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: 6 credits of American Studies, Sociology, or Women's Studies	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: 9 credits of philosophy; or 6 credits in philosophy where three credits are from PHIL 008 or 114; or 6 credits in philosophy wl	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: J ST 010 or J ST 121 or HIST 121 or consent of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: WMNST 100 or WMNST 200	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: 3 credits in CAMS	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: CRIMJ100 or WMNST100	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: 3rd Semester Standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: WMNST 100 or WMNST 100U or WMNST 105N or WMNST 106N or WMNST 106Q or WMNST 301 or	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/

Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: general psychology or general sociology	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: WMNST100 , WMNST117	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: PSYCH 100 and PSYCH 221	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite: LHR 100 or 3 other credits of LHR or 5th Semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisites: 3 credits of ANTH or 3 credits of WMNST	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: 3 credits in SOC	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: Minimum fifth-semester standing or permission of instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or (ENGL 13	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Enforced Prerequisite at Enrollment: ENGL 15 or ENGL 15A or ENGL 15S or ENGL 15E or ESL 15 or ENGL 30H or ENGL 30T or ENGL 137	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: WMNST001 , WMNST301 , WMNST400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Honors	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wmnst/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
Enforced Prerequisite at Enrollment: Approval of proposed assignment by instructor prior to registration	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wp/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
General Education: Health and Wellness (GHW)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WF ED105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: two years of work experience, or fourth-semester standing, or prior approval by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: completion of an occupational learning period in the field of certification or field of specialization	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: completion of a two-year formal learning period in the field of specialization	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: completion of a two-year formal learning period in the field of specialization	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Full-Time Equivalent Course	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: 7th semester standing or higher or permission of program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Enforced Prerequisite at Enrollment: 4th semester standing. Students with no 4th semester standing need to provide evidence to the instru	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: two years of work experience, or fourth-semester standing, or prior approval by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: a minimum of 2 years work experience or 4th semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WFED 105	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: 300-400 level Psychology, HD FS, or Education courses or permission of the program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: two years of work experience, or fifth semester standing, or prior approval by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WF ED445	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WF ED441	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/

Prerequisite: WF ED105 ; fourth-semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL) United States Cultures (US)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: two years of relevant work experience or fourth semester standing or prior approval by program	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: seventh-semester standing or higher	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: prior approval of proposed assignment by instructor	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WF ED445	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: successful completion of occupational competency evaluation. PA Act 34 clearance required. In addition, non-Pennsylvania	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Prerequisite: WF ED105 , WF ED106 , WF ED207W , WF ED270 , WF ED471 ; successful completion of occupational competency examina	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
International Cultures (IL)	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wfed/
Concurrent: WL ED295A	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisite: WL ED300	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisites: Second semester standing	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisite: EDPSY014 , EDTHP115 , WL ED295A , WL ED300; Concurrent: WL ED495B	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Writing Across the Curriculum	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisite: WL ED300 or WL ED400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisite: WL ED300 or WL ED400	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
None	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisites: EDPSY 14, EDTHP 115, WLED 300 Recommended Preparation: Official clearances required. See: http://www.ed.psu.edu/pr	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/
Prerequisites: WLED 411, WLED 495B Recommended Preparation: Official clearances required. See: http://www.ed.psu.edu/preservice/cle	https://bulletins.psu.edu/university-course-descriptions/undergraduate/wled/