

University of Tennessee, Chattanooga

2025-2026 Undergraduate Catalog

Course Descriptions

[Contract All Courses](#) |

Courses certified as satisfying General Education Requirements are identified in the course title with a two letter category abbreviation. General Education categories are listed below.

[Writing and Communication \(WC\)](#) [Humanities and Fine Arts \(HF\)](#) [Natural Science \(LL, LC & LB, NL\)](#)

[Behavioral and Social Science \(SB\)](#) [Quantitative Reasoning \(QR\)](#) [Individual and Global Citizenship \(CZ\)](#)

Entrepreneurship

ETR 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher. Differential course fee will be assessed.

ETR 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher. Differential course fee will be assessed.

ETR 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand. Differential course fee will be assessed.

Environmental Science

ESC 1100 - Conservation of Biodiversity (NL)

(3) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including evolution, population biology, ecosystem properties, biomes, extinction, human overpopulation, deforestation, global climate change, preservation of species, conservation ethics and economics, public policy, and sustainability. Credit not allowed toward Biology or Environmental Science majors if student has previously completed [BIOL 1120](#)

or [ESC 1510](#)

. May be registered as [BIOL 1100](#)

. Credit not allowed in both ESC 1100 and [BIOL 1100](#)

General Education Category: Natural Science Non-Lab

ESC 1250 - The First Year Experience in Environmental Science

(1) Credit Hours

An introduction to the college experience of first-year students at UTC and the aspects needed for a successful transition from high school to college. This includes an introduction to the department, successful learning techniques for environmental science, and expectations for academic success. Elective available to students with fewer than 30 earned hours. Recommended during the initial semester for environmental science majors who enter UTC with fewer than 15 hours. Fall semester. Lecture 1 hour.

ESC 1500 - Introduction to Environmental Science I (LL)

(4) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including basic ecological principles and environmental problems at local, national, and global levels. Topics to be covered include evolution, ecosystems, human overpopulation, biodiversity, energy sources, solid waste, and pollution of air, water, and soil. The laboratory integrates the scientific approach and provides hands-on experience in identification of abiotic and biotic factors affecting environmental quality. Ability to perform algebraic calculations is necessary for success. Lecture 3 hours, laboratory 2 hours. Corequisites: ESC 1500L or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lecture and Lab.

ESC 1510 - Introduction to Environmental Science II (LL)

(4) Credit Hours

An introduction to systematic ways in which the human mind comprehends the natural world; emphasis on studies of living systems, natural processes, and related phenomena including a focus on local environmental problems. Topics covered include a detailed study of the history of conservation, loss of biodiversity, conventional and organic agriculture, water pollution, global climate change, and environmental legislation. The laboratory is a combination of hands-on experiment and field activities. Lecture 3 hours, laboratory 2 hours. Prerequisites: [ESC 1500](#) with a minimum grade of C or Department Head approval. Corequisites: ESC 1510L or Department Head approval. Laboratory/studio course fee will be assessed.

General Education Category: Natural Science Lecture and Lab.

ESC 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. Maximum credit four hours. On demand. Prerequisites: Department Head approval.

ESC 2500 - World Resources

(3) Credit Hours

Location, utilization, production, consumption, and significance of resources to society. Introduction to the vast, interlocking network of activities that produce and affect the world's use and consumption of resources. Lecture 3 hours. Prerequisites: [ESC 1510](#) with a minimum grade of C or Department Head approval. May be registered as [GEOG 2500](#). Credit not allowed in both ESC 2500 and [GEOG 2500](#).

ESC 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

ESC 3010 - Justice, Policy, and the Environment

(3) Credit Hours

An exploration of justice and equity concepts in the context of law, policy, and the environment, focusing primarily on Native American experiences and the modern Environmental Justice movement. Fall semester. Restricted to Sophomore standing or higher. May be registered as [EVST 3010](#). Credit not allowed in both ESC 3010 and EVST 3010.

ESC 3400 - Environmental Survey Methods

(4) Credit Hours

Field survey methods for compiling of botanical, zoological, geological, and archaeological data. To include mapping, sampling, and recording. Lecture 2 hours, laboratory 4 hours. Prerequisites: [ESC 1510](#) or [BIOL 1130](#) or Department Head approval. Also offered as BIOL 3400. Credit not allowed in both BIOL 3400 and ESC 3400. Laboratory/studio course fee will be assessed.

ESC 3600 - Air and Water Pollution Control

(3) Credit Hours

The study of the origin, monitoring and control of air and water pollutants; to include sample taking, testing and observation of procedures used in community laboratories. Lecture 2 hours, laboratory 2 hours. Prerequisites: one year of a natural science or engineering and fulfillment of the mathematics and statistics requirement for the respective concentration or Department Head approval. Laboratory/studio course fee will be assessed.

ESC 3999R - Group Studies

(1-9) Credit Hours

On demand. Pre or Corequisites: Department Head approval. Department may have additional prerequisite requirements.

ESC 4010 - Microbial Ecology

(4) Credit Hours

A study of microorganisms in their natural environment with regard to microbial evolution, growth, interactions, dispersal mechanisms, ecological significance, and biotechnology applications. Lecture 3 hours, laboratory 2 hours. Prerequisites: [BIOL 4220](#) and [CHEM 3010](#), or Department Head approval. Laboratory/studio course fee will be assessed.

ESC 4020 - Meiofauna Biodiversity

(4) Credit Hours

This course will explore patterns and mechanisms of biodiversity with a focus on small-sized invertebrates known as meiofauna. Students who take this course will become familiar with the major meiofaunal taxa and fundamental methods of biodiversity estimates and biomonitoring. The class is substantially hands-on. Students will develop, interpret, and analyze large and diverse datasets using computational tools, collect and analyze samples in the field, and develop an independent and creative research project. Fall semester. Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#) or [BIOL 3250](#) or [BIOL 3350](#) with minimum grades of C, or Department Head approval. Laboratory/studio course fee will be assessed.

ESC 4070 - Principles of Conservation Biology

(3) Credit Hours

Examination of the major concepts and topics pertaining to conservation biology. These include the importance of and threats to biodiversity, conservation at different scales, overexploitation of species, exotic species, ecotourism and economics, and ethics. Fall semester. Prerequisites: [BIOL 3060](#) with a grade of C or better or Department Head approval.

ESC 4100 - Environmental Law and Agencies

(3) Credit Hours

Survey of national, state, and local environmental agencies, and provisions of environmental laws and ordinances at all levels of government. Emphasis on National Environmental Policy Act (NEPA). Analysis and composition and environmental impact statements. Senior standing or Department Head approval.

ESC 4260 - Outreach in Science and Education

(2) Credit Hours

Simultaneously learn how to organize public outreach and education events as well as get firsthand experience in organizing and running a nonprofit educational event centered on education, biology, environmental science, ecology, conservation, land management and more. The Spring Wildflower Pilgrimage in the Great Smoky Mountains National Park (GSMNP), which began in 1951, is the oldest and largest public outreach event of its kind in the US. Each year more than 200 educational programs are created and more than 100 leaders are organized to educate approximately 1000 people over four days in what has been called "nature's greatest classroom," the GSMNP. This class will not be based on exercises and examples, but actually building, working for, and attending the event. The course will begin with an overview of the Pilgrimage and we will get right to work assembling the Program and advertising its launch by mid-February, advertising and opening registration in March, and then **all students will be required to attend and assist with the event during a week in April (although we will make a schedule so students are not working the entire week, have time to attend programs of interest, and take some personal time).** Lodging in Gatlinburg, TN as well as three meals a day during the event will be provided for students in this class, and we can schedule time off for exams that need to be taken and for you to attend some of the event! Some of you will also need to attend the Association of Southeastern Biologists meeting, which is usually mid-March. Those of you who do this will not be required to work as much during the actual event in April and will serve more as team leaders during the actual event. Spring semesters. Junior standing. May be registered as ESC 4260, BIOL 4260, or GEOL 4260.

Effective Spring 2026.

ESC 4300 - Case Studies in Environmental Problems

(3) Credit Hours

In depth study of the application of environmental law and policy to specific environmental problems using the case study method. Course will focus on four factors in each case study: 1) characterize the natural environment, 2) identify human modification of the environment, 3) examine law and policy responses to modification of the environment, and 4) critique the responses. Prerequisites: [ESC 1510](#) with a minimum grade of C or Department Head approval.

ESC 4325 - Wildlife Administration and Policy

(3) Credit Hours

Responsibilities of private, state, and federal natural resources management agencies. Legal and political processes in areas of environmental, wildlife and natural resources. Fall semester. Lecture 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3070](#) or Department Head approval. May be registered as BIOL 4325. Credit not allowed in both BIOL 4325 and ESC 4325.

ESC 4330 - Principles and Management of Wildlife Disease

(3) Credit Hours

Fundamental causes of disease-induced morbidity and mortality among free-ranging wildlife populations. Emphasis on the etiology, pathobiology, clinical signs, lesions, epidemiology, diagnosis, zoonoses, population significance, and management significance of diseases produced by toxicologic, viral, microbial, parasitic, and fungal pathogens. The implications for management and conservation strategies will be debated. Additional concepts such as the species-barrier, animals as model's infectious disease, the animal human interface, agricultural production, and disease surveillance will be also be covered. Fall or Spring semester. Lecture 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3070](#) or Department Head approval. May be registered as [BIOL 4330](#). Credit not allowed in both [BIOL 4330](#) and ESC 4330.

ESC 4380 - Toxicology

(4) Credit Hours

Basic principles of toxicology, including physiological responses to toxicants, toxic effects, elimination of toxic agents, fundamental laws governing the interaction of foreign chemicals with biological systems, and toxicity testing methods. Lab component addresses analytical methods for measuring physiological responses to toxicant exposure. Lecture 2 hours, laboratory 4 hours. Prerequisites: [ESC 1510](#) or [BIOL 3250](#) with a minimum grade of C; [CHEM 3010](#) and [CHEM 3010L](#); [MATH 1130](#); or Department Head approval. May be registered as [BIOL 4380](#). Credit not allowed in both ESC 4380 and [BIOL 4380](#). Laboratory/studio course fee will be assessed.

ESC 4400 - Tropical Marine Ecology

(4) Credit Hours

An examination of tropical marine habitats at the species, population and ecosystem levels with particular emphasis on sea grass beds, coral reefs, mangrove forests, tidal rivers and lakes, and the intertidal zone. The required field component is a one-week experience at a field station in the Caribbean. Spring semester. Lecture 2 hours, laboratory/field experience 4 hours. Prerequisites: [BIOL 3060](#) or [BIOL 3250](#) or [BIOL 3350](#) with a minimum grade of C or Department Head approval. May be registered as [BIOL 4400](#). Credit only allowed in one of the two courses. Laboratory/studio course fee will be assessed.

ESC 4430 - Bioremediation

(4) Credit Hours

A study of the potential use of biological systems in the remediation of areas contaminated with toxic pollutants. Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3350](#)

and [BIOL 3250](#)
with minimum grades of C; and [BIOL 4220](#)
; and [CHEM 3010](#)
; or Department Head approval. May be registered as [BIOL 4430](#)
. Credit not allowed in both ESC 4430 and [BIOL 4430](#)
. Laboratory/studio course fee will be assessed.

ESC 4460 - Global Change Biology

(3) Credit Hours

A study of the influence and response of organisms to changes in the environment that are global in scale, including climate and land-use changes, from past, present and future perspectives. Lecture 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3350](#)
with minimum grades of C or Department Head approval. May be registered as [BIOL 4460](#)
. Credit not allowed in both ESC 4460 and [BIOL 4460](#)
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ESC 4512 - Amphibian Ecology and Conservation

(3) Credit Hours

To understand the biological diversity, ecology, evolution, and cultural and environmental value of amphibians and to introduce the types and sources of information that must be known should one include amphibian conservation as professional career. Students who take this course should become more informed biologically and culturally about amphibians than someone (fellow students, family, friends, politicians) who has not taken the course, and be prepared to explain the global and regional value and importance of amphibians. In this course we will examine the conservation related aspects of amphibians and their habitats. These aspects include the patterns of biological diversity, ecology, life history, law, policy, trade, and the over-arching methods used to measure, and monitor amphibian biodiversity will be reoccurring themes. Spring semester odd years. Lecture 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3070](#)
or Department Head approval. May be registered as [BIOL 4512](#)
. Credit not allowed in both [BIOL 4512](#) and ESC 4512.

ESC 4514 - Reptile Ecology and Conservation

(3) Credit Hours

To understand the biological diversity, ecology, evolution, and cultural and environmental value of reptiles and to introduce the types and sources of information that must be known should one include reptile conservation as professional career. Students who take this course should become more informed biologically and culturally about reptiles than someone (fellow students, family, friends, politicians) who has not taken the course, and be prepared to explain the global and regional value and importance of reptiles. In this course we will examine the conservation related aspects of reptiles and their habitats. These aspects include the patterns of biological diversity, ecology, life history, law, policy, trade, and the over-arching methods used to measure, and monitor reptile biodiversity will be reoccurring themes. Fall semester odd years. Lecture 3 hours. Prerequisites: [BIOL 3060](#) and [BIOL 3070](#)
or Department Head approval. May be registered as [BIOL 4514](#)
. Credit not allowed in both [BIOL 4514](#)

and ESC 4514.

ESC 4520 - Limnology and Reservoir Ecology

(4) Credit Hours

Chemical, physical, and biological processes in lake and reservoir systems (nutrient budgets and cycling, hydrodynamics, phytoplankton/ zooplankton/benthic dynamics, and physical similarities and differences in lakes and reservoirs). Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#)

, [BIOL 3250](#)

, [BIOL 3350](#)

, [CHEM 1110](#)

, and [CHEM 1120](#)

, all with minimum grades of C, or Department Head approval. May be registered as [BIOL 4520](#)

. Credit not allowed in both ESC 4520 and [BIOL 4520](#)

. Laboratory/studio course fee will be assessed.

ESC 4540 - Plant Ecology

(4) Credit Hours

A study of relationships of plants with their living and non-living environment, explored from the levels of plant individuals, populations and communities. Laboratory component includes hands-on experimentation and field activities developed to assess plant responses to abiotic and biotic environmental conditions. Lecture 3 hours, laboratory 3 hours. Prerequisites: [BIOL 3060](#)

and [BIOL 3350](#)

with minimum grades of C, or Department Head approval. May be registered as [BIOL 4540](#)

. Credit not allowed in both ESC 4540 and [BIOL 4540](#)

. Laboratory/studio course fee will be assessed.

ESC 4590 - Advanced Topics in Evolutionary Ecology

(3) Credit Hours

Exploration of advanced topics in evolutionary ecology. Topics to be focused on include life-history evolution, sexual selection, parental investment, mating systems, social behavior, and/or topics that are the focus of current active research in the field of evolution. Prerequisites: [BIOL 3350](#)

and [BIOL 3060](#)

with minimum grades of C or Department Head approval. May be registered as [BIOL 4590](#)

. Credit not allowed in both ESC 4590 and [BIOL 4590](#)

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ESC 4650 - Remote Sensing and Imagery Analysis

(4) Credit Hours

Principles of aerial and satellite photography and infrared, multispectral, and microwave sensing. Interpretation of remotely sensed data, including application to problems in a variety of environmental sciences. Lecture 3 hours,

laboratory 2 hours. Prerequisites: [GEOL 2100](#)
or Department Head approval. May be registered as [GEOG 4650](#)
. Credit not allowed in both ESC 4650 and [GEOG 4650](#)
. Laboratory/studio course fee will be assessed.

ESC 4660 - Geographic Information Systems

(4) Credit Hours

Introduction to fundamental principles of geographic information systems (GIS). Applications, data structures and basic functions of GIS. GIS computer programs are used to demonstrate basic GIS functions. Lecture 3 hours, laboratory 2 hours. Prerequisites: [ESC 4650](#)
[/GEOG 4650](#)
or Department Head approval. May be registered as [GEOG 4650](#)
. Credit not allowed in both ESC 4660 and [GEOG 4660](#)
. Laboratory/studio course fee will be assessed.

ESC 4680 - Introduction to Soil Resources

(4) Credit Hours

Introduction to the study of soils and exploration of fundamental principles of origin, nature and constitution of soils. The geological origin of soils and factors of soil formation. Study of soil's physical, chemical and biological properties in determining the suitability of land for various uses. The environmental impact of agricultural and non-agricultural soil and land use. Soil erosion and conservation. The conquest of land through 7000 years and the impact human actions. Spring semester. Lecture 3 hours, laboratory 3 hours. Prerequisites: [ESC 1510](#)
with a minimum grade of C, or Department Head approval. May be registered as [BIOL 4680](#)
. Credit not allowed in both ESC 4680 and [BIOL 4680](#)
. Laboratory/studio course fee will be assessed.

ESC 4800 - Seminar on the Environment

(1) Credit Hours

Seminar and discussion of topics of current environmental interest. Student presentation required. Senior standing or Department Head approval.

ESC 4840 - Values and the Environment

(3) Credit Hours

An examination of the personal and social values at issue in the environmental problems of urban and nonurban regions. Attention to the emerging concern for an environmental ethic. Prerequisites: [ESC 1500](#)
or Department Head approval. May be registered as [PHIL 4840](#)
. Credit not allowed in both ESC 4840 and [PHIL 4840](#)
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ESC 4900 - Environmental Science Senior Project

(2-3) Credit Hours

A group project involving analysis and solution of an environmental problem; oral and written presentation of progress and final results required. Spring semester. Senior standing or department head approval.

ESC 4910R - Environmental Science Internship (Specific Agency, etc.)

(1-4) Credit Hours

A cooperative arrangement between the University and agencies, organizations, groups, and businesses involved with environmental problems. Designed to provide students with a learning, observing, and work experience through direct contact with individuals working on problems related to their field. Maximum credit: 9 hours. Every semester. Junior or Senior standing and Department Head approval.

ESC 4920 - Advanced Applications of Remote Sensing and Geographic Information Systems

(2) Credit Hours

Applications of geographical research tools and techniques in conjunction with faculty instruction and supervised research that includes the processing of geographic data for use in a wide variety of environmental scenarios. Emphasis will be placed on methodological practice and documentation of procedures. Students will have opportunities for interaction with guest speakers and to learn hands-on methods involving collection of field data. Lecture 1 hour, laboratory 2 hours. Prerequisites: 90 earned hours and [ESC 4660](#) or [GEOG 4660](#) or Department Head approval. Laboratory/studio course fee will be assessed.

ESC 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher. Laboratory/studio course fee will be assessed.

ESC 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher.

(1-9) Credit Hours

(1-9) Credit Hours

(1) Credit Hours

(1-9) Credit Hours

(3) Credit Hours

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EVST 2020 - Science for the Anthropocene

(3) Credit Hours

An exploration of the lasting mark that humanity has made on the natural world from a primarily scientific perspective with consideration of more diverse and multidisciplinary approaches to contemporary environmental issues. Spring semester. Lecture 3 hours.

EVST 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

EVST 3010 - Justice, Policy, and the Environment

(3) Credit Hours

An exploration of justice and equity concepts in the context of law, policy, and the environment, focusing primarily on Native American experiences and the modern Environmental Justice movement. Fall semester. May be registered as

[ESC 3010](#)

. Credit not allowed in both [ESC 3010](#) and EVST 3010.

EVST 3600R - Topics in Literature and the Environment

(3) Credit Hours

A literature course focused on environmental themes and texts. Topics to be studied will be specified in the schedule of classes. On demand. Lecture 3 hours. Prerequisites: [ENGL 1020](#) or Department Head approval. May be registered as [ENGL 3600R](#).

EVST 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

EVST 4000R - Advanced Topics in Environmental Studies

(3) Credit Hours

Examination of selected topics and themes in environmental studies from an interdisciplinary perspective. Specific subject to be identified in the schedule of classes. On demand. Lecture 3 hours. Prerequisites: [EVST 2000](#) or Department Head approval.

EVST 4900 - Environmental Studies Internship

(1-6) Credit Hours

Supervised working experience in a professional situation providing students the opportunity to integrate and extend classroom learning with practice. Maximum 6 hours credit. Every semester. Prerequisites: Minimum 2.75 GPA and Program Coordinator approval in the semester preceding enrollment. Environmental Studies major or minor.

EVST 4995R - Departmental Thesis

(1-3) Credit Hours

Requires University Honors approval. Department may have additional prerequisite requirements. Student must submit an Individual Studies/Research Contract to the Registrar's Office at the time of registration.

EVST 4997R - Research

(1-9) Credit Hours

Department may have additional prerequisite requirements. Student must submit an Individual Studies/Research Contract to the Registrar's Office at the time of registration. Every semester. Prerequisites: Department Head approval.

EVST 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Sophomore standing or higher.

EVST 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand. Prerequisites: Department Head approval.

Finance

FIN 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. Maximum credit 4 hours. On demand. Prerequisites: Department Head approval. Differential course fee will be assessed.

FIN 2010 - Personal Finance (QR)

(3) Credit Hours

This course is designed to promote financial literacy and help individuals make informed decisions about personal financial management such as creating a budget, managing debt, buying a house, planning for retirement and building wealth. Fall and Spring semesters. Prerequisites: Any college level math class or ACT of 19 or higher. Differential course fee will be assessed.

General Education Category: Quantitative Reasoning

FIN 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements. Differential course fee will be assessed.

FIN 3000 - Small Business Finance

(3) Credit Hours

The role and nature of finance in the small business. The essential tenants and concepts of small business finance are distinguished from corporate finance. Every semester. Prerequisites: [ACC 2000](#)

or [ACC 2010](#)

, or Department Head approval. Junior standing. Credit will not apply toward Business Administration: Finance major. Differential course fee will be assessed.

FIN 3020 - Essentials of Managerial Finance

(3) Credit Hours

Management of funds in business, including procurement, utilization, and disposition of money. Financial aids such as budgeting and break even analysis, financial statement analysis, and capital management. Every semester. Prerequisites:

[ACC 2020](#)

with a minimum grade of C, [ECON 1010](#)

and [ECON 1020](#)

with minimum grades of C, [DATA 2130](#)

or [MATH 2100](#)

with a minimum grade of C, [MATH 1130](#)

or [MATH 1710](#)

or [MATH 1720](#)
or [MATH 1830](#)
or MATH 1910 or [MATH 1950](#)
, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3180 - Financial Institutions

(3) Credit Hours

Capital markets and institutions; sources and uses of capital funds; impact of changes in flow of funds on the economy. Fall and Spring semesters. Prerequisites: [FIN 3020](#)
with a minimum grade of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3200 - Intermediate Financial Management

(3) Credit Hours

A course designed to provide students with a detailed development of key finance concepts introduced in earlier course work. Topics covered include risk analysis, security valuation, capital budgeting, cost of capital, capital structure, the dividend decision, leasing and mergers. Every semester. Prerequisites: [FIN 3020](#)
with a minimum grade of C, [DATA 2140](#)
with a minimum grade of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3210 - Investments I

(3) Credit Hours

Theory of investment; classification of media; security analysis; investment market mechanisms; securities legislation; institutional aids to the investor, investment timing; formulation of investment programs. Every semester. Prerequisites: [FIN 3020](#)
with a minimum grade of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3370 - Principles of Insurance

(3) Credit Hours

Types of insurance, insurance coverage, policy protection, and company organization and regulation. Spring semester. Prerequisites: 6 hours from [ECON 1010](#)
, [ECON 1020](#)
, [FIN 3000](#)
with minimum grades of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3700 - Introduction to Financial Analysis

(3) Credit Hours

This course offers students the opportunity to learn about macroeconomic research as it pertains to equity valuation

methods. Interested students are interviewed and if selected to join the SMILE Fund, may enroll in this class. This course offers students the opportunity to acquire analytical experience, research writing, research presentation, and leadership skills. On demand. Prerequisites: Department Head or Faculty Director of the SMILE Fund approval. Differential course fee will be assessed.

FIN 3710 - Real Estate Fundamentals

(3) Credit Hours

A survey course on real estate principles. Topics include property rights, ownership, economic and social issues, and brokerage. Fall semester. Prerequisites: [FIN 3020](#), or [FIN 3000](#) and 3 hours from [ECON 1010](#), [ECON 1020](#), all with minimum grades of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 3800R - SMILE Fund Seminar

(1) Credit Hours

This course offers a safe environment for students to learn active portfolio management skills and professional equity research methods. Interested students are interviewed and if selected to join the SMILE Fund, may enroll in this class. Each student will be placed in a position that is appropriate for their level of financial understanding. This course offers students the opportunity to acquire analytic experience and leadership skills that go beyond the scope of traditional undergraduate programs. A maximum of six credit hours may be applied toward program requirements. Fall and Spring semesters. Differential course fee will be assessed.

FIN 3900R - Experiential Learning: Academic Internship Program

(1-3) Credit Hours

A supervised work experience designed to strengthen the student's technical competencies and fundamental knowledge in accounting, finance, management, marketing or entrepreneurship. Application process required. Minimum GPA and previous coursework will be evaluated prior to approval. A maximum of three credit hours can be earned through one internship position. A maximum of six credit hours can be earned in [ACC 3900R](#)

/ [DATA 3900R](#)

/ [ECON 3900R](#)

/ [ETR 3900R](#)

/ [FIN 3900R](#) / [MGT 3900R](#)

/ [MKT 3900R](#)

per student through the College of Business with no more than three hours earned per semester. Every semester. Prerequisites: approval of internship coordinator. Junior standing. Open to business majors only. Differential course fee will be assessed. Satisfactory/No Credit.

FIN 3999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements. Differential course fee will be assessed.

FIN 4030 - Financial Statement Analysis

(3) Credit Hours

Techniques of financial statement analysis with special attention paid to the balance sheet and the income statement. Emphasis on current position, profitability, and financial structure of the firm. Fall and Spring semesters. Prerequisites: [FIN 3020](#) with a minimum grade of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4120 - International Finance

(3) Credit Hours

Designed to offer students an understanding of the global financial environment. Topics covered include foreign exchange markets, the evolving international financial architecture, currency crises, foreign exchange risk management, political risk and multinational capital budgeting. Fall and Spring semesters. Prerequisites: [FIN 3020](#) with a minimum grade of C and three hours from the following: [ACC 3000](#), [FIN 3180](#), [FIN 3200](#), [FIN 3210](#), or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4210 - Investments II

(3) Credit Hours

A course designed to introduce the undergraduate to advanced investment analysis and theory. Included in the course will be computer applications and analysis of investment vehicles and strategies. Fall and Spring semesters. Prerequisites: [FIN 3210](#), [DATA 1000](#) or [CPSC 1000](#) with a minimum grade of C, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4230 - Financial Modeling and Analytics

(3) Credit Hours

This course connects Finance theory with real-world business problems. Students will learn to build standard financial models in corporate finance ranging from the simple NPV analysis to the relatively more complex Pro Forma enterprise valuation. The course covers a variety of modeling techniques such as sensitivity and scenario analysis, optimization methods, regression analysis and Monte Carlo simulations and will incorporate current analytical techniques in the field. Fall and Spring semesters. Prerequisites: [FIN 3200](#) or Department Head approval. Junior standing. Differential course fee will be assessed.

Effective Spring 2026.

FIN 4310 - Derivative Securities and Risk Management

(3) Credit Hours

Theory and practical applications of futures, options, and other derivative securities as used in risk management. Concepts, model derivations, and numerical examples are included. Spring semester. Prerequisites: Any of the following:

[FIN 3180](#)

, [FIN 3200](#)

, [FIN 3210](#)

or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4500 - Behavioral Finance

(3) Credit Hours

This course is designed to provide students with information on how individuals and firms make financial decisions, and how those decisions might deviate from those predicted by traditional financial or economic theory. Students explore the existence of psychological biases in financial decision-making, and examine the impacts of these biases in financial markets and other financial settings. The course examines how the insights of behavioral finance complement the traditional finance paradigm. On demand. Prerequisites: [FIN 3020](#)

and 3 additional hours of Finance, or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4710 - Real Estate Appraisal

(3) Credit Hours

Theory and practical applications of real estate appraisal. Qualitative and quantitative analyses are incorporated into the various approaches of real estate valuation. Topics include cash flow estimation, lease valuation, site valuation and market analyses. On demand. Prerequisites: [FIN 3020](#)

and [FIN 3710](#)

or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4880 - Seminar in Portfolio Management

(3) Credit Hours

A seminar in security analysis and portfolio management. Students will experience the actual investment decision process by analyzing and investing designated funds into a variety of securities. Fall and Spring semesters. Prerequisites:

[FIN 3210](#)

and or Department Head approval. Pre or Corequisites: [ACC 3000](#)

or [FIN 4030](#)

or Department Head approval. Junior standing. Differential course fee will be assessed.

FIN 4995R - Departmental Thesis

(1-3) Credit Hours

A two-semester research or creative project resulting in a thesis under the supervision of a faculty member and with the approval of the Honors College. On demand. Prerequisites: Student must coordinate with Honors College to submit a Thesis Contract to get registered for this course. Restricted to Sophomore standing or higher. Differential course fee will be assessed.

FIN 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher. Differential course fee will be assessed.

FIN 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher. Differential course fee will be assessed.

FIN 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand. Differential course fee will be assessed.

Foreign Languages

FLNG 1010R - Foreign Language and Culture I (CZ or HF)

(3-6) Credit Hours

In this course students master skills in the language at the novice level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the people who speak the language. Fall semester. On demand.

General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FLNG 1020R - Foreign Language and Culture II (CZ or HF)

(3-6) Credit Hours

In this course students master skills in the foreign language at the novice level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the people who speak the

language. Spring semester on demand. Prerequisites: [FLNG 1010R](#) with a minimum grade of C or placement, or Department Head approval.
General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FLNG 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. Maximum credit four hours. On demand. Prerequisites: Department Head approval.

FLNG 2110R - Foreign Language and Culture III

(3) Credit Hours

In this course students master skills in the foreign language at the intermediate level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the people who speak the language. Prerequisites: [FLNG 1020R](#) with a minimum grade of C or placement, or Department Head approval.

FLNG 2120R - Foreign Language and Culture IV

(3) Credit Hours

In this course students master skills in the foreign language at the intermediate level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the people who speak the language. Prerequisites: [FLNG 2110R](#) with a minimum grade of C or placement, or Department Head approval.

FLNG 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.

FLNG 3999R - Group Studies

(1-9) Credit Hours

On demand. Pre or Corequisites: Department Head approval. Department may have additional prerequisite requirements.

FLNG 4997R - Research

(1-9) Credit Hours

Enables students to conduct independent research. On demand. Prerequisites: Student must coordinate with a specific

faculty member to complete the Research contract to get registered for the course. Restricted to Sophomore standing or higher.

FLNG 4998R - Individual Studies

(1-9) Credit Hours

Enables students to study selected topics in depth. On demand. Prerequisites: Student must coordinate with a specific faculty member to complete the Individual Studies contract to get registered for the course. Restricted to Sophomore standing or higher.

FLNG 4999R - Group Studies

(1-9) Credit Hours

Department may have additional prerequisite requirements. On demand.

French

FREN 1010 - French Language and Culture I (CZ or HF)

(4) Credit Hours

In this course students master skills in French at the novice level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the Francophone world. Fall semester.

General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FREN 1020 - French Language and Culture II (CZ or HF)

(4) Credit Hours

In this course students continue to master skills in French at the novice level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the Francophone world. Spring semester. Prerequisites: [FREN 1010](#)

with a minimum grade of C or placement or Department Head approval.

General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FREN 1999R - Special Projects

(1-9) Credit Hours

Individual or group projects. Maximum credit 4 hours. On demand. Prerequisites: Department Head approval.

FREN 2110 - French Language and Culture III (CZ or HF)

(3) Credit Hours

In this course students master skills in French at the intermediate level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the Francophone world. Fall semester. Prerequisites: [FREN 1020](#)

with a minimum grade of C or placement or Department Head approval. This course is prerequisite for majors and minors.

General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FREN 2120 - French Language and Culture IV (CZ or HF)

(3) Credit Hours

In this course students continue to master skills in French at the intermediate level, such as speaking and writing proficiency, and listening and reading comprehension, with an emphasis on the unique cultures of the Francophone world. Spring semester. Prerequisites: [FREN 2110](#)

with a minimum grade of C or placement or Department Head approval. This course is prerequisite for minors and majors.

General Education Category: Individual and Global Citizenship or Humanities and Fine Arts

FREN 2999R - Group Studies

(1-4) Credit Hours

On demand. Prerequisites: [FREN 2110](#)

with a minimum grade of C or Department Head approval.

FREN 2999R - Group Studies

(1-9) Credit Hours

On demand. Prerequisites: Department Head approval. Department may have additional prerequisite requirements.