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**Accounting**

**ACCT 2100 - Accounting for son-Business Majors . . .3 (3-0)** An overview of the basic concepts of accounting for users of a counting information with a proper balance between conceptual understanding and procedural training. The course provides an appropriate mix between financial and anagerial accounting, designed for non-business majors.

**ACCT 2101 - Accounting Principles I . . . . . . . . . .3.00 Credits**

A study of the underlying theory and application of financial accounting concepts.

*Prerequisite(s): (MATH 1111 US C or MTH 110 UG C)*

**ACCT 2102 - Accounting Principles II . . . . . . . . . .3.00 Credits**

A study of the underlying theory and application of managerial accounting concepts.

*Prerequisite(s): (ACCT 2101 US C or ACC 201 UG C)*

**ACCT 3101 - Intermediate Accounting I . . . . . . . .3.00 Credits** Financial accounting and reporting related to the development of accounting standards, financial statements, cash and receivables. *Prerequisite(s): (ACCT 2102 US C or ACC 202 UG C)*

**ACCT 3102 - Intermediate Accounting II . . . . . . .3.00 Credits** Financial accounting and reporting related to inventory, property, and plant and equipment, intangibles, liabilities, and stockholders' equity.

*Prerequisite(s): ACCT 3101 US C and FI,C 3105 US C*

**ACCT 3103 - Intermediate Accounting III . . . . . .3.00 Credits** Financial accounting and reporting related to investments, leases, income taxes, pensions, accounting changes, errors, earnings per share and financial reporting and analysis.

*Prerequisite(s): (ACCT 3102 US C or ACC 302 UG C)*

**ACCT 4101 - Cost Accounting I . . . . . . . . . . . . . . .3.00 Credits**

A study of cost concepts and cost flows, cost behavior and cost estimation, job order costing, process costing, activity based costing, and joint product and by product costing.

*Prerequisite: ACCT 2102.*

**ACCT 4102 - Cost Accounting II . . . . . . . . . . . . . .3.00 Credits** Must be enrolled in one of the following Class(s): Senior. A study of budgeting, standard costing, cost-volume-profit analysis, performance evaluation, and variable costing, including new developments.

*Prerequisite: ACCT 4101*

**ACCT 4106 - Tax Research . . . . . . . . . . . . . . . . . . .3.00 Credits** May not be enrolled in one of the following College(s): No College Designated (LS). A course designed to apply the concepts learned in Tax Accounting I and II. Use of library research and case analysis are used to develop a deeper understanding of income tax applications.

*Prerequisite: ACCT 4102.*

**ACCT 4107 - Accounting Theory . . . . . . . . . . . . . . 3.00 Credits** May not be enrolled in one of the following Class(s): Freshman, Junior, Sophomore. The study of the conceptual theory underlying accounting and the development of accounting principles within the conceptual theory. Emphasis placed on accounting objectives and the cost, revenue, income asset and equity concepts.

*Prerequisites: ACCT 3102, FI,C 3105 and senior standing.*

**ACCT 4108 - International Accounting . . . . . . . . .3.00 Credits**

A study of the international dimension of accounting as it relates to multinational corporations and the international environment. *Prerequisite: ACCT 3101.*

**ACCT 4111 - Auditing I . . . . . . . . . . . . . . . . . . . . . .3.00 Credits** Principles and problems of auditing financial statements with emphasis on GAAS, Rules of Conduct, Code of Ethics, Internal Control and Audit Report.

*Prerequisite: ACCT 3102.*

**ACCT 4112 - Auditing II . . . . . . . . . . . . . . . . . . . . .3.00 Credits**

A detailed study of audit procedures including audit sampling, tests of controls and substantive tests.

*Prerequisite: ACCT 4111.*

**ACCT 4121 - Tax Accounting Me . . . . . . . . . . . . . .3.00 Credits**

A study of the income tax law, especially as it is applied to individuals. Includes the concepts of gross income, business and personal deductions, filing status, gains and losses, cost recovery, and tax determination.

*Prerequisite: ACCT 2102.*

**ACCT 4122 - Tax Accounting II . . . . . . . . . . . . . . .3.00 Credits**

A study of the income tax law regarding the alternative minimum tax, property transactions, corporations, partnerships, estates and trusts, and the gift and estate tax.

*Prerequisite: ACCT 4121.*

**ACCT 4131 - Advanced Accounting I . . . . . . . . . .3.00 Credits** Financial accounting and reporting related to partnerships branches, segmental and interim reporting.

*Prerequisite: ACCT 3102.*

**ACCT 4141 - Municipal Accounting . . . . . . . . . . .3.00 Credits** Fund theory, generally accepted accounting principles, an accounting practice and reporting for local and state governments.

*Prerequisite: ACCT 2101.*

**ACCT 4142 - sot for Profit Accounting . . . . . . . . .3.00 Credits** Fund theory, generally accepted accounting principles, and accounting practice and reporting for hospitals, colleges and universities, and other not-for-profit entities.

*Prerequisite: ACCT 2102.*

**ACCT 4205 - Accounting Info. Systems . . . . . . . . .3.00 Credits** Principles of accounting systems investigation, design and installation. Procedures for electronic data processing, information retrieval, and application of quantitative tools in systems. *Prerequisite: ACCT 2102 and BISE 2010.*

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**ACCT 6101 - Accounting Analysis/Decision . . . . .3.00 Credits** May not be enrolled in one of the following Level(s): Semester System Undergraduate. This course is designed to familiarize the student with applications of accounting data in decision making; cost analysis as applied in the development of budgets; and standards as an accounting tool for cost control and pricing. A case problem that requires students to interpret and discuss their analysis in the context of managerial decision-making is used.

*Prerequisite: FI,C 3105.*

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**ACCT 6102 - Managerial/Cost Accounting II . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate. This is a study of budgeting, standard costing, and cost-volume profit analysis, performance evaluation, and variable costing. also covers new developments in the area of costing

*Prerequisite: ACCT 4101.*

**ACCT 6106 - Tax Research . . . . . . . . . . . . . . . . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate. A course designed to apply the concepts learned in Tax Accounting I. Library research and case analysis are used to develop a deeper understanding of income tax applications. *Prerequisite: ACCT 4121.*

**ACCT 6107 - Accounting Theory . . . . . . . . . . . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate The study of the conceptual theory underlying accounting and the development of accounting principles within conceptual theory. Emphasis is placed on accounting objectives and the cost, revenue, income, asset, and equity concepts.

*Prerequisite: ACCT 3102.*

**ACCT 6108 - International Accounting . . . . . . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate A study of the international dimension of accounting as it relates to the Multinational Corporation and the international environment.

*Prerequisite: ACCT 2102.*

**ACCT 6112 - Advanced Auditing I . . . . . . . . . . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate A detailed study of audit procedures includes audit sampling, tests of controls and substantive tests.

*Prerequisite: ACCT 4111.*

**ACCT 6122 - Tax Accounting II . . . . . . . . . . . . .3.00 Credits**

May not be enrolled in one of the following Level(s): Semester System Undergraduate. The study of the income tax law regarding the alternative minimum tax, property transactions, corporations, partnerships, estates and trusts, and the gift and estate tax.

*Prerequisite: 4121.*

**ACCT 6131 - Advanced Accounting I . . . . . . . .3.00 Credits** May not be enrolled in one of the following Level(s): Semester System Undergraduate. This course is a study of financial accounting and reporting related to partnerships, branches, segmental and interim reporting.

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*Prerequisite: ACCT 3103.*

**ACCT 6132 - Advanced Accounting II . . . . . . . . . .3.00 Credits** May not be enrolled in one of the following Level(s): Semester System Undergraduate Financial accounting and reporting related to business combinations and consolidations and for foreign operations.

*Prerequisite: ACCT 3103.*

**ACCT 6141 - Municipal Accounting . . . . . . . . . . .3.00**

**Credits** May not be enrolled in one of the following

Level(s): Semester System Undergraduate. Fund theory, generally accepted accounting principles, and accounting practice and reporting for state and local governments.

*Prerequisite: ACCT 2102.*

**ACCT 6142 - sot-For-Profit Accounting . . . . . . . .3.00 Credits** May not be enrolled in one of the following Level(s): Semester Sys- tem Undergraduate. This course covers fund theory, generally accepted accounting principles, and accounting practice and reporting for hospitals, colleges and universities, and other not-for profit entities.

*Prerequisite: ACCT 6141.*

**Albany State University**

**ASU 1020 - Academic Renewal . . . . . . . . . . . . . .2 (2-0) Credits**

ASU 1020 will allow students facing academic suspension an opportunity to continue their enrollment and at the same time receive university support for an additional semester to improve their academic standing.

**ASU 1200 - Freshman Seminar/Svc.** **to leadership . .3.00 Credits**

Designed to primarily introduce students to college life and develop Skills necessary for their success. It serves to promote scholastic attainment, the value of education self-actualization, involvement in the campus and local community, and leadership skill development. One component of the course focuses on the mastery study skills, writing skills, critical thinking, health issues, etc. This component also includes a convocation series, which bring nation- ally recognized community leaders and scholars to campus for engaging and intellectually stimulating course. The second component of this course addresses community service and leadership. This course will replace ASU 1000-College Life Skills and Development and ASU 1100 - Service to Leaders.

**Art**

**ARAP 1100 - Art Appreciation …........................... 3 (3-0) Credits**

Selected examples of work from a cross section of historical and contemporary visual art forms will be examined in terms of our evolving visual vocabulary. Attention to contributions of cultures, past and present.

**ARHA 3401 - Ancient Art History ........................3.00 Credits** Study of prehistoric and primitive art, ancient Near-Eastern art, Egyptian art, Aegean art, Greek art, Roman art and early Christian and Byzantine art.

**ARHA 3402 - Renaissance Art History ................3.00 Credits** Study of Italian and northern Renaissance art focusing on the personalities and developments which helped shape it from the 14th through 17th centuries.

*Prerequisite: ARHA 3401.*

**ARHA 4069 - Special Problems/Art History........3.00 Credits** Intensive individual exploration in the area of art history.

*Prerequisite: Approval of the Department Chairperson and a*

*supervising teacher and ARHA 4403.*

**ARHA 4403 - Modern Art History........................3.00 Credits** Study of modern art and of the artist and developments which helped shape the field from the Neoclassic and Romantic periods until today. *Prerequisite: ARHA 3402*

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**ARHA 4406 - African-American Art ....................3.00 Credits** Study of sources, prototypes and uses from such aspects as the philosophical, critical, visual, relevant to the history and development of African-American Art. Offered alternate years.

**ARST 1001 - Design I-Fundamentals of Design ..3.00 Credits** Introduction to the basic language of the visual arts, giving special attention to two dimensional organization.

**ARST 1031 - Drawing I-Basic Drawing ...............3.00 Credits**

Introduction to the techniques, materials and principles of drawing with an emphasis on observational drawing.

**ARST 2002 - Design II-Fundamentals of Design .3.00 Credits** Further development of concepts begun in Design I and Drawing I, plus introduction to three dimensional design. Emphasis given to working creatively with hand tools in a variety of materials and techniques.

*Prerequisite: ARST 1001 or ARST 1031.*

**ARST 2032 - Drawing II-Intermediate Drawing.3.00 Credits**

A continuation of principles and concepts explored in Drawing I.

*Prerequisite: ARST 1031.*

**ARST 2051 - Painting I..............................................3.00 Credits**

Study of form, space, value, color and composition. Painting from man- made forms, natural forms and imagination, the student will acquire a working knowledge of form control and development. *Prerequisites: ARST 2002 and ARST 2032.*

**ARST 2101 - Sculpture I-Basic Sculpture ........... 3.00 Credits** Study of elementary sculptural form and techniques. Explore and uses a variety of materials.

*Prerequisites: ARST 2001 and ARST 2002.*

**ARST 3007 - Craft Design .....................................3.00 Credits**  Study of the basic processes for working with wood, glass, plastic, etc. Special emphasis on forming processes as well as consideration of methods of joining and combining materials. The concepts emphasized here will be open and applicable to a variety of technical possibilities. Major restrictions.

**ARST 3052 - Painting II-Intermediate Painting..3.00 Credits** Continued exploration and experimentation with the formal prob- lems and concepts developed in Painting I.

*Prerequisite: ARST 2051.*

**ARST 3081 - Ceramics I-Intro/Ceramic Art........3.00 Credits**  Introduction to the materials, tools and techniques of ceramics. Emphasis on hand-building techniques. Major restriction.

**ARST 3082 - Ceramics II .......................................3.00 Credits** Continuation of Ceramics I with emphasis on decoration and glazes, firing and other building or forming techniques.

*Prerequisite: ARST 3081.*

**ARST 3102 - Sculpture II ......................................3.00 Credits** Continuation of Sculpture I. Emphasis will be placed on the use of the imagination on the development of more expressive sculp- tural form.

*Prerequisite: ARST 2101.*

**ARST 3201 - Graphics I-Intro/Graphic Proc ......3.00 Credits** Introduction to the basic techniques, procedures and processes of graphic expression.

*Prerequisite: ARST 2032.*

**ARST 3202 - Graphics II .......................................3.00 Credits**

Continuation of Graphics I.

*Prerequisite: ARST 3201.*

**ARST 3501 - Textile Design ...................................3.00 Credits** The study of design as applied to contemporary hand printed textiles. Major restriction.

**ARST 4065 - Special Problems/Painting ..............3.00 Credits** Intensive in- dividual exploration in the area of painting. For minor and senior majors. Major restriction.

*Prerequisites: Approval of the Department Chairperson and a su-*

*pervising teacher.*

**ARST 4066 - Spec Pro/Sculpture ..........................3.00 Credits**

Intensive individual exploration in the area of sculpture. Prerequisites: Approval of the Department Chair- person and a supervising teacher. Major restriction.

*Prerequisite: ARST 3102.*

**ARST 4067 - Spec Pro/Graphics ...........................3.00 Credits**

Intensive individual exploration in the area of graphics. Prerequisites: Approval of the Department Chair- person and a supervising teacher. Major restriction.

*Prerequisite: ARST 3202.*

**ARST 4068 - Spec Pro/Drawing ............................3.00 Credits** Intensive individual exploration in the area of drawing. Restricted for art majors.

*Prerequisite: ARST 2032.*

**ARST 4070 - Special Problems in Ceramics ........3.00 Credits** Intensive individual exploration in the area of ceramics. Restricted for art majors.

*Prerequisite: ARST 3082.*

**ARST 4071 - Spec Pro/Design ...............................3.00 Credits** Intensive individual exploration in the area of design. Restricted for art majors.

*Prerequisite: ARST 2002.*

**ARST 4072 - Techniques & Materials ..................3.00 Credits** Intensive individual exploration in the area of techniques and materials.

*Prerequisites: Approval of the Department Chairperson and a su-*

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*pervising teacher.*

**ARST 4201 - Watercolor ........................................3.00 Credits**

Exploration of the aquarelle technique.

*Prerequisite: ARST 2032.*

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**ARST 4601 - Seminar I ..........................................3.00 Credits** Senior. Study of current problems, trends, developments and personalities in the arts. Students will also utilize this class to develop a portfolio of their work. *Prerequisites: Senior standing and consent of Department.*

**ARST 4602 - Seminar II.........................................3.00 Credits** Senior. Continued study of the world of art, exhibitions, museums, galleries, etc. Student will also prepare and present a comprehensive exhibition of his or her work.

*Prerequisites: Senior standing and consent of Department Chair- person.*

**Biology**

**BIOL 1111K - Intro to Biological Sciences.00 OR 4.00 Credits**

A course designed for non-science majors that emphasizes fundamental concepts of the cell (i.e., cell structure and function, mitosis and metabolism), and plant anatomy and physiology through the use of lectures, audio visual aids, selected laboratory experiments, and demonstrations.

**BIOL 1112K - Intro to Biological Sciences.00 OR 4.00 Credits**

A course designed for non-science majors that emphasizes human anatomy and physiology, classical and molecular genetics, evolution, ecology, and surveys the plant and animal kingdoms through lectures, audio-visual aids, selected laboratory experiments, and demonstrations.

**BIOL 1114K - Survey of Biotechnology . ..00 OR 4.00 Credits** This course studies the basic concepts, applications and impact of manipulative DNA technology on plants, animals and man.

**BIOL 1115K - Intro to**

**Environmental Biology . . . . . . . . . . . . . . ..00 OR 3.00 Credits** This course studies the basic concepts and impact of the interrelated complexities of the environment on man, plants, animals and society. *Co-requisite(s): BIOL 1115.*

**BIOL 1801 - Science Career Exploration . . . . . .1.00 Credits** This course is designed to introduce students (majors and non majors) to the diverse career opportunities in the biological, biomedical, chemical and related sciences.

**BIOL 2111K - Biology I . . . . . . . . . . . . . . ..00 OR 4.00 Credits**

A study of the animal kingdom will be introduced with discussions on the continuity and diversity of life; emphasis will be placed on basic chemistry, the cell, and classification, biological contributions, characteristics, life cycles, and economic importance of selected phyla.

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*Prerequisite: none for majors; permission of instructor for non-majors.*

**BIOL 2112K - Biology II . . . . . . . . . . . . . ..00 OR 4.00 Credits** Continuity, evolution and activity of life, and the animal and its environment will be discussed in this course; special emphasis will be placed on the following topics: reproduction, development, classical and molecular genetics, organic evolution, human anatomy and physiology, ecology and the environment.

*Prerequisite: BIOL 2111K.*

**BIOL 2113K - Invertebrate Zoology . . . ..00 OR 3.00 Credits** This course will emphasize classification, biological contributions, characteristics, morphology, phylogeny, and adaptive radiation among the invertebrate animal phyla.

*Prerequisite: BIOL 2111K or permission of instructor.*

**BIOL 2211K - Introduction to Microbiology.00 OR 4.00 Credits** General course in microbiology consisting of fundamental principles gained from a study of representative types of microbial organisms (morphology and physiology strongly emphasized). *Prerequisites: BIOL 2111K and BIOL 2112K or permission of instructor.*

**BIOL 2311 - General Botany I . . . . . . . . ..00 OR 4.00 Credits**

*Co-requisite(s): BIOL 2311K.*

**BIOL 2311K - General Botany I . . . . . . ..00 OR 4.00 Cr edits** An introduction to the study of the plant kingdom with emphasis on plant structure and function, reproduction and heredity.

*Prerequisites: BIOL 2111K and 2112K or permission of instructor.*

**BIOL 2312K - General Botany II . . . . . . ..00 OR 4.00 Credits**

A study of the evolutionary relationships of representative nonvascular and vascular plants.

*Prerequisite: BIOL 2311K..*

**BIOL 2320K - Laboratory**

**Research Techniques . . . . . . . . . . . . . . . . ..00 OR 3.00 Credits** This course is designed to provide students with common laboratory procedures that are utilized in experimental methodologies. *Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D ) and (CHEM 2112 KUSD or CHEM 2112 US D). Co-requisite(s): BIOL*

*2320.*

**BIOL 2411K - Human**

**Anatomy/Physiology I . . . . . . . . . . . . . . . ..00 OR 4.00 Credits** Introduction to the gross and microscopic structure and functional relationships of the integument, bones, muscles, nerves and endocrine organs.

**BIOL 2412K - Human**

**Anatomy/Physiology II . . . . . . . . . . . . . . ..00 OR 4.00 Credits** This course emphasizes the gross and microscopic structure/function of the following systems: cardiovascular, lymphatic, respiratory, urinary, digestive and reproductive.

**BIOL 2415 - Scientific Writing . . . . . . . ..00 OR 3.00 Credits** This course is designed to acquaint learners with discovery inquiry processes and to provide competencies for writing scientific papers. *Prerequisite: permission of instructor.*

**BIOL 2801 - Test Taking Skills in Science . . . . . .2.00 Credits** This course is designed to enhance the student's science know edge and reasoning skills needed to extract and deduce information, thereby increasing the probability of scoring favorably on examinations required for admission to graduate and professional schools. (MCAT,DAT,GRE, VET and others).

**BIOL 3101K - Environmental Biology . . ..00 OR 4.00 Credits** Introduction to fundamental ecological concepts, with emphasis on the study of ecosystems, energy, biogeochemical cycles, resources, pollution and human ecology.

*Prerequisite: BIOL 2111K.*

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**BIOL 3109 - Advanced concepts in**

**Biological Sciences .......................................00 OR 3.00 Credits** This course will address concepts and methodologies in biology. The interactions and relationships of protestant, minerals, fungi, plants and animals will also be stressed. Special emphasis will be morphological and physiological aspects of living organisms.

**BIOL 3201K - Entomology . . . . . . . . . . . ..00 OR 4.00 Credits** Introduction to the study of insect life histories, habitats and their relationships with emphasis on the economic importance and control of these organisms.

*Prerequisite: BIOL 2111K.*

**BIOL 3250K - Biochemistry . . . . . . . . . . ..00 OR 4.00 Credits** The student examines the structure, function, and metabolism of carbohydrates, amino acids and proteins, lipids, and nucleic acids, (topics include bioenergetics, enzyme kinetics, photosynthesis, and the interdependence of the various metabolic pathways of inter- mediate metabolism) in this course.

*Prerequisite: CHEM 2302K.*

**BIOL 3309K - Plant Anatomy . . . . . . . . ..00 OR 4.00 Credits** The study of structure and development of vegetative and reproductive organs of vascular plants with emphasis on angiosperms. *Prerequisite: BIOL 2311K.*

**BIOL 3311K - Intro to Natural Resources.00 OR 3.00 Credits** An introduction to the study of population issues, resource avail- ability, environmental water quality, and energy and food resource depletion.

*Prerequisite: BIOL 2111K and CHEM 2112K or permission of in-*

*structor.*

**BIOL 3312K - Planning/Managing sat Resource …… 00 OR 3.00 Credits** The study of renewable and nonrenewable resources will be considered as it relates to evaluating and making objective decisions regarding strategic planning for future survival.

*Prerequisite(s): BIOL 3101K and BIOL 3311K.*

**BIOL 3313K - sat Resource/Environ Policy . . . ..00 OR 5.00 Credits** This course explores potential means of achieving control over environmental concerns and examines the interaction and effect of local, state and federal governments on environ- mental policy. *Prerequisites: BIOL 3101K, 3311K and 3312K.*

**BIOL 3314K - Conservation of Energy . ..00 OR 3.00 Credits**

A course designed to acquaint students with the growing dependency of modern society on fossil fuel supplies, the possible exhaustion of these fuels and the social, economic and technical problems involved in stabilizing our energy needs for future generations. *Prerequisite: Junior or senior standing or permission of in- structure.*

**BIOL 3315K - Conservation of**

**Energy Resource ..........................................00 OR 3.00 Credits**

A course that introduces the student to energy technologies that impact on transportation, buildings and industry as it relates to lowering energy costs. The course explores major successful economic and conservative strategies, including curtailment, improved efficiency and readjustments that have been successful in these areas. *Prerequisite: BIOL 3314K.*

**BIOL 3316K - Sources/Use of Plant/Wildlife.00 OR 3.00 Credits** A course that introduces the student to the ways plant and wildlife resources have been used throughout history and studies their importance in food production and non-edible product utilization. *Prerequisite: BIOL 3101K or 3311K.*

**BIOL 3317K - Natural Resources/Food**

**Product..........................................................00 OR 3.00 Credits**

A course that introduces the student to the food requirements of organisms in specific geographical habitats and examines methods that may be used to increase food quantities in our natural re- sources.

*Prerequisite: Junior or senior standing or permission of instructor.*

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**BIOL 3318K - Marine Life Resources** . . . ..00 OR 3.00 Credits A course that introduces the student to the marine ecosystem which includes plants, animals, invertebrates and vertebrates in their unique environment.

*Prerequisite(s): (BIOL 3311K US D or BIOL 3311 US D or*

*BIO 306 UG D).*

**BIOL 3319K - Conservation of Marine Life.00 OR 3.00 Credits** A course that introduces the student to the oceans of the world and examines conservation techniques that are applicable to various marine environments.

*Prerequisite(s): (BIOL 3318K US D or BIO 330 UG D or BIOL*

*3318 US D).*

**BIOL 3320K - Principles/Tech in**

**Water Resources Service .............................00 OR 4.00 Credits**

A course that introduces the student to the procedures needed to examine water over a wide quality range, including water suitable for domestic or industrial supplies, surface water, and treated and untreated municipal or industrial wastewater.

*Prerequisite(s): (BIOL 3311K US D or BIO 306 UG D or*

*BIOL 3311 US D).*

**BIOL 3321K - Conservation/Plant/**

**Wildlife Resources .......................................00 OR 3.00 Credits**

A course that introduces the student to the impact of expansion by urban populations on plant and wildlife resources and focuses on specific conservation strategies that help reverse negative trends that have been established through years of misuse and abuse. *Prerequisite: Junior or Senior or Permission of instructor.*

**BIOL 3401K - Introduction to Histology ..00 OR 4.00 Credits** Introduction to the study of tissues with emphasis placed on light microscopic preparations.

*Prerequisite(s): (BIOL 2111K US D or BIOL 2111 US D or*

*BIO 205 UG D). Co-requisite(s): BIOL 3401.*

**BIOL 3501K - Principles of Genetics . . . ..00 OR 4.00 Credits** Introduction to the study of the modern concepts of heredity in plants and animal systems.

*Prerequisite(s): (BIOL 2111K US D or BIOL 2111 US D or BIO 205*

*UG D) and (BIOL 2112K US D or BIOL 2112 US D) and (BIOL*

*2311K US C or BIOL 2311 US D or BIO 208 UG D).*

**BIOL 3611 - Medical Mycology . . . . . . . ..00 OR 4.00 Credits** Design to acquaint students with select fungal groups that cause human disease.

*Prerequisite(s): (BIOL 2111K US D or BIOL 2111 US D).*

*Co-requisite(s): BIOL 3611K.*

**BIOL 3801K - Electron Microscopy . . . . .00 OR 3.00 Credits**

A mini-course that introduces techniques needed to examine specimens utilizing the transmission electron microscope. *Prerequisite: Junior or Senior status or permission of instructor.*

**BIOL 3901 - Pathophysiology . . . . . . . . . . . . . . . .3.00 Credits** Survey of the fundamentals of human diseases, with emphasis on anatomical, physiological and clinical processes

*Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D) or (BIOL*

*2111K US D or BIOL 2111 US D or BIO 205 UG D).*

**BIOL 4001 - Research/Independent Study I . . . .1.00 Credits** The student will be introduced to research and independent methods of scientific research, will make oral presentations on scientific topics

of interest and plan a research project with assistance from a faculty advisor. (Required of all majors.)

*Prerequisite: senior classification or permission of instructor.*

**BIOL 4002 - Research/Independent Study II . . .1.00 Credits** The student will make oral presentations and present research findings (written and oral) derived from independent study. *Prerequisite(s): ( BIOL 4001 US D or BIO 401 UG D).*

**BIOL 4101K - General Physiology . . . . . ..00 OR 4.00 Credits**

In this course, the experimental approach to physiology is emphasized including the nerve impulse, enzymes and their properties, along with other selected topics. Prerequisites: BIOL

2112K and senior status.

*Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D).*

**BIOL 4201K - Introduction to Parasitology.00 OR 4.00 Credits** Fundamentals of parasitism is investigated in this course with emphasis on life histories and economic importance of protozoan, helminthes, and arthropod parasites.

*Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D)*

**BIOL 4222 - Biology Senior Research . . ..00 OR 3.00 Credits** The student will be introduced to research and independent methods of scientific research, conduct supervised research project, collect and analyze data, write a research paper on the topic of research and finally will make oral presentations on scientific topics of interest. *Prerequisite(s): BIOL 4001.*

**BIOL 4301K - Developmental Biology . . ..00 OR 4.00 Credits** Classical methods of analysis and the series of embryonic stages from gametogenesis to histogenesis will be emphasized. Also, basic conceptual topics such as nuclear totipotency, cell determination, cytoplasmic localization, induction, and morphogenesis are interspersed.

*Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D).*

**BIOL 4401K - Comparative**

**Vertebrate Anatomy . . . . . . . . . . . . . . . . . ..00 OR 4.00 Credits** Course lectures will include comparative structure and evolutionary relationships among a series of chordates from amphioxus to mammals, with thorough laboratory dissections of at least one representative from each of the vertebrate classes.

*Prerequisite(s): (BIOL 2112K US D or BIOL 2112 US D). Co-requisite(s): BIOL 4401.*

**BIOL 4501K - Immunology . . . . . . . . . . ..00 OR 4.00 Credits** Structural and physiological properties of microbes, including immunology, infectious diseases and regular immune- type responses are covered in this course.

**Course**

**Descriptions**

*Prerequisite(s): (BIOL 2211K US D or BIOL 2211 US D).*

*Co-requisite(s): BIOL 4501.*

**BIOL 4601K - Plant Physiology . . . . . . . ..00 OR 4.00 Credits**

A study of vascular plant functions, including absorption and translocation of water and solutes, transpiration, photosynthesis, respiration, growth and development and hormonal regulation is done in this course.

*Prerequisite(s): ( BIOL 2311K US D or BIO 209 UG D or BIOL 2311*

*US D )and ( BIOL 2312K US D or BIOL 2312 US D). Co-requisite(s): BIOL 4601.*

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**BIOL 4701K - Cell/Molecular Biology . . ..00 OR 4.00 Credits** This course is designed to acquaint students with the organization and function of the cell utilizing cytological techniques to investigate structure and function.

*Prerequisite(s): (BIOL 2311K US D or BIOL 2311 US D or*

*BIO 209 UG D).*

*Co-requisite(s): BIOL 4701.*

**BIOL 4702K - Biotechnology . . . . . . . . . ..00 OR 4.00 Credits** The course is designed to illustrate the current rise in biotechnology and explore its application in plant, animal, biomedical, human society, and global environment. This course will also provide "hands-on" experience with modern biotechnology and molecular biology research techniques in the laboratory.

*Prerequisite(s): (BIOL 2211K US D or BIOL 2211 US D) and (BIOL 3250K US D or BIOL 3250) or (CHEM 3250K US D or CHEM 3250 US D).*

*Co-requisite(s): BIOL 4702.*

**BIOL 4805 - Seminar . . . . . . . . . . . . . . . . . . . . . .1.00 Credits** This course is designed to give the education major appropriate methodologies needed to plan and conduct a research project. *Prerequisite(s): Education major with junior or senior status.*

**BIOL 4901 - MARC Honors Seminar . . . . . . . . .1.00 Credits** This course is designed to introduce students (MARC Honors participants) to research methodologies and will provide appropriate competencies needed to present research investigations on scientific topics of interest.

*Prerequisite: permission of instructor.*

**BIOL 4902 - MARC Honors Seminar . . . . . . . . .1.00 Credits** This course will provide participants with the background needed to plan, conduct and present research findings under the guidance of a faculty advisor.

*Prerequisite: permission of instructor.*

**Business Administration**

**BUSA 3000- Practicum in**

**International Business.............................................3.00 Credits** This course provides an opportunity for students to have exposure to business operations abroad for one semester or a summer term. Students will have hands on opportunity to work with a company or study abroad at an institution of higher learning.

**BUSA 3100- Business Internship I .........................3.00 Credits** This course introduces junior or advanced sophomore business students to business only environments in their aspiring professional careers with an opportunity to gain valuable insights into actual organizational and managerial practices and operations. Through school experiences students can better correlate their academic experiences with their future professional career.

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**BUSA 4100- Business Internship II .......................3.00 Credits** This course permits the senior standing student with an opportunity to gain invaluable insight into actual organizational and managerial practices and opportunities. This internship is often in line with the student’s specific career interests.

*Prerequisite: Senior standing.*

**BUSA 4105 - International Business ......................3.00 Credits** Contemporary problems, issues and opportunities in international business, from conceptual and practical view- points. Extensive use of case studies to develop student abilities to diagnose and develop solutions to management situations facing the multinational executive. *Prerequisite(s): (ECO, 2105 US C or ECO 201 UG C) and (ECO,*

*2106 US or ECO 202 UG C) and (MGMT 3105 US C or MGT 304*

*UG C).*

**Business Information Systems and Education**

**BISE 2010 - Fundamentals of**

**Computer Applications ...........................................3.00 Credits**

An introductory hands-on course designed to cover word processing, spreadsheets, database, presentations, e-mail and world wide web.

**BISE 2040 – Communication for Management ...3.00 Credits** Applications of the principles of verbal and non-verbal communication. Management concepts of business ethics and problem analysis are integrated with communication process and theory.

*Prerequisite: E,GL 1101 and 1102.*

**BISE 2400 - Survey of**

**Computer Application.............................................3.00 Credits** Introductory hands- on course designed to cover word processing, spreadsheets, database, presentations, e- mail and World Wide Web.

*Prerequisite: ,one.*

**BISE 2600 – Business Communication..................3.00 Credits** Applications of the principles of verbal and non-verbal communication. Management concepts of business ethics and problem analysis are integrated with communication process and theory.

*Prerequisite: E,GL 1102 US D or E,G 102 UG D*

**BISE 3000 - Technology and Language Arts.........3.00 Credits** This course builds on word processing skills while reinforcing language arts and communication skills, information management skills, decision making skills and the ability to work with little to no direction.

*Prerequisite: BISE 2010.*

**BISE 3080 - Information Systems Framework.....3.00 Credits**

An introduction into understanding the various types of computer based Information Systems, including, but not limited to, Management Information Systems, Decision Support Systems, Office Automation Systems, Expert Systems and Executive Support Systems. Also an emphasis on how these systems relate to managing organizations for increased efficiency and competitiveness. *Prerequisite: BISE 2010.*

**BISE 3100 - Information Systems**

**Resource Management ............................................3.00 Credits** Management techniques involved in records creation, inventory and analysis of active/inactive records maintenance. The course also provides a broad overview of managing information system resources. The course discusses increased efficiency and competitiveness *Prerequisite: BISE 3080.*

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**BISE 3110 - Advanced Computer Applications ....3.00 Credits**

An intensive study of computer applications used in today’s business settings. Emphasis is placed on current technologies and how these applications are used in business and industry.

*Prerequisite: BISE 3100.*

**BISE 3200 - End-User Computer Development ...3.00 Credits** Analysis and development of information systems with end- user needs in mind. Includes an investigation of graphical user interface (GUI) design strategies that help in maximizing the design and acceptance of systems by end-users and emphasis on software used to design end-user applications, such as webpages and warehousing.

*Prerequisite: BISE 2010.*

**BISE 3210 - Desktop Publishing**

**and Multimedia........................................................3.00 Credits** Designed to introduce students to basic concepts relating to business publications. Software programs and equipment which allow the integration of text and graphics are evaluated, and students will use sound, still images, presentation software to create examples of typical business publications such as newsletters, brochures, catalogs, and reports.

*Prerequisites: BISE 2010.*

**BISE 3300 - Human-Computer Interactions ........3.00 Credits**

A study of the interaction of people, technology and procedures. Coverage includes ergonomics work trends, work patterns and structures, health issues, and other needs and concerns of the employee in a technological environment. Students will be engaged in the development of a virtual HCI design that attempts to meet the needs of unique user populations.

**BISE 3350 - Telecommunications Management ...3.00 Credits**

An introduction to telecommunications in the business environment. Topics include telephone, data codes, protocols, protocols, and network architecture, local area networks, communication media, hardware and software. Management issues and practical applications are integral parts of the course.

*Prerequisite: BISE 2010.*

**BISE 3500 - Business Statistics...............................3.00 Credits** The application of statistical techniques to economic and business problems. Topics include descriptive statistics, introduction to probability theory, confidence interval estimation, and hypothesis testing, sampling techniques, and business forecasting. *Prerequisites: OBAS 2400- Survey of Computer Application, OBAS*

*2200 - Survey of Economics and MATH 1111- College Algebra.*

**BISE 3700 - Principles of Management.................3.00 Credit**s Management principles applicable to all types of cooperative enterprises. The vital functions of the manger are studied in detail. *Prerequisites: ,one.*

**BISE 3710 - Mgmt Information Systems..............3.00 Credits**

An introduction to Information systems, emphasizing concepts, components, and structures of Information systems and their applications in business and managerial decision making. *Prerequisite: OBAS 2400- Survey of Computer Applications.*

**BISE 3720 - Prince of Prod/Opera Mgmt .............3.00 Credits** The application of management science principles to the actual management of an industrial plant. Through the application of these techniques, improved decisions are made as to hiring, firing, training,

and output planning and controlling, raw material acquisition, quality control budgeting and maintenance expenditures as concerns the manufacturer of products.

*Prerequisites: OBAS 3500- Business Statistics, OBAS 3700- Principles of Management.*

**BISE 3800 - Principles of Finance..........................3.00 Credits**

An introduction to promotion and organization of the corporation, forms of securities issued, problems of financial administration, expansion, securing funds, reorganization, and liquidation. *Prerequisites OBAS 2300- Survey of Accounting or Equivalent*

**BISE 3810 - Principles of MKTG...........................3.00 Credits** Provides a general survey of the field of marketing covering the marketing concept, product, price, promotion and marketing channels topics. In addition, this course introduces basic marketing functions and processes

**BISE 3820 - International Business .......................3.00 Credits**

An introduction to the nature and environment of the international business, multinational business operations, and the future of international business.

*Prerequisites: OBAS 3700 - Principles of Management*

**BISE 4000 - Human Resources Mgmt ...................3.00 Credits** Explores the process of forecasting and identifying resources in the labor market, determining staffing needs, developing budgets and employment plans. Emphasis is on program evaluation and legal considerations, equal employment opportunity, performance appraisal, compensation management, training and development.

**BISE 4010 - Organizational Theory ......................3.00 Credits** Must be enrolled in one of the following Program(s): BAS in Technology Management. An advanced course in organization design and structure and their impact on individual, group, and organization effectiveness. Focus is on the role of authentic leadership in taking action based on the relationships of mission, power, resources, structure and fulfillment.

*Prerequisite: OBAS 3700 - Principles of Management.*

**BISE 4020 - Entrepreneurship ...............................3.00 Credits** Participants explore the increasing importance of entrepreneurial activity in the world as well as obtaining an introduction to the practical aspects of starting a new business venture. Topics include: startup issues, legal forms of organization, operation planning, financing the business, budgeting, personal issues, and developing an accounting and control system.

*Prerequisites: OBAS 3700- Principles of Management, OBAS 3810- Principles of Marketing, and OBAS 3800- Principles of Finance.*

**BISE 4030 - Quality Mgmt System ........................3.00 Credits** Develops the continues quality philosophy. Strategic quality management focuses on assessment and group decisions. The role of leadership in continuous quality improvement is covered in quality profiles and cases. An overview of tools for improving quality processes as well as current theories of Six- Sigma and lean manufacturing are presented.

**Course**

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*Prerequisites: OBAS 3700 - Principles of Management, OBAS*

*3720-Principles of Production and Operations Management, and*

*OBAS 2400- Survey of Computer Applications.*

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**BISE 4205 - Management Information Systems 3.00 Credits**

An overview course designed to introduce students to the area of management information systems. It emphasizes concepts, components, and structures of information systems and their applications in business and managerial decision making. *Prerequisite: BISE 2010.*

**BISE 4206 - Database Management Systems 3.00 Credits**

An introduction to database management and its system implementation techniques, this course covers the structure of database management systems, database design, Entity- Relationship modeling, normalization, relational database system development and management using an industrial leading database system such as ORACLE. Optional topics may include object- oriented databases, distributed databases, database programming, and advance database management issues.

*Prerequisite: BISE 2010.*

**BISE 4207 - Systems Analysis & Design 3.00 Credits** Covers all major phases of a complete systems development life cycle(SDLC), business modeling techniques such as E-R diagramming, data flow diagramming and the use of Integrated Computer-Aided Software Engineering (I-CASE) tools to support systems development. Optional topics may include forms and report development using rapid applications development (RAD) tools, client/ server development, and web-based systems deployment. *Prerequisite: BISE 2010 and MGMT 4205.*

**BISE 4210 - Decision Support Systems 3.00 Credits** Management decisions- making and the role of DSS (Decision Support Systems) is explored. The course provides the student with the skills necessary to conceptualize, build, and implement DSS in organizations, includes Expert Systems, Executive Support Systems, and Group Decision

Support Systems.

*Prerequisite(s): BISE 3080 US C and BISE 3080.*

**BISE 4220 - Special Topics/Research in**

**Information Systems ...............................................3.00 Credits** May not be enrolled in one of the following Class(s): Freshman, Junior, Sophomore Designed to provide senior students with an opportunity to conduct research projects for publication in journals. Students will investigate new trends in Information Systems business and industry, Information Systems curricula and Information Systems research.

*Prerequisite: Senior Standing*

**BISE 4230 - Information Systems Internship 3.00 Credits** Provides an opportunity for students to gain practical experience while working in a business or government agency. Internship coordinated by a

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faculty member and supervised by an approved business supervisor.

*Prerequisite: Approved COB organization/ corporation.*

**BISE 4240 - Computer Program in Business 3.00 Credits** Students engage in programming from a business perspective. Languages, including: Visual Basic, C++, JavaScript, HTML, Perl, etc are determined by the new trends in business and industry. *Prerequisite: BISE 2010, BISE 3080.*

**BISE 4250 - Info Systems Certifications 3.00 Credits** Must be enrolled in one of the following Class(s): Senior. Students are engaged in understanding of and presentation for the various types of certifications. Students are encouraged to apply and take the

examination during the course.

*Prerequisite: Senior standing.*

**BISE 4260 - E-Commerce 3.00 Credits** This course investigates the evaluation, implementation, and disadvantages of E-Commerce systems.

*Prerequisite(s): BISE 4206 US C and BISE 4206.*

**BISE 4900 - Strategic Management .......................3.00 Credits** Must be enrolled in one of the following Program(s): BAS in Technology Management. A study of business strategy and strategic planning in relation to company resources. the environment and changes which may bring opportunities or threats. An opportunity to apply one’s skilled through strategic case analysis and through the management of a manufacturing firm in a computer- stimulated business station. *Prerequisites: OBAS 3700- Principles of Management, OBAS 3810- Principles of Marketing, and OBAS 3800- Business Finance Prerequisite(s): (OBAS 3700 US C and OBAS 3810*

*US C and OBAS 3800 US C)*

**Chemistry**

**CHEM 1101K – Intro to Chemistry Lab**

*Co-requisite(s): CHEM 1101*

This course is designed to prepare students with little, if any, chemistry or math backgrounds for the General Chemistry I and General Chemistry II sequence (CHEM 1211/1212). Topics to be studied include matter, measurement, units and unit conversions, graphing, atomic structure, nomenclature, bonding, the periodic table, chemical equations, chemical reactions, stoichiometry. Exercises designed to improve science study skills will be included. The emphasis of the lecture will be on problem solving strategies, skill building and real life applications.

**CHEM 1151K - Survey of Chemistry I ......00 OR 4.00 Credits** This course is the first in a two-semester sequence covering elementary principles of general and organic chemistry and biochemistry designed for allied health profession majors. Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular geometry. Laboratory exercises will supplement the lecture material.

*Prerequisite: Permission of instructor.*

**CHEM 1152K - Survey of Chemistry II ....00 OR 4.00 Credits** The second course in a two-semester sequence covers elementary principles of general and organic chemistry and biochemistry and is designed for allied health profession majors. Laboratory exercises will supplement the lecture material.

*Prerequisite(s): CHEM 1151K US D or CHEM 1151 US D.*

**CHEM 1211K - General Chemistry I ........00 OR 4.00 Credits** This course involves the study of the states of matter, stiochemistry, atomic and molecular structure, solutions, acid base theory, and chemical equilibrium.

*Prerequisite: Permission of instructor.*

**CHEM 1212K - General Chemistry II.......00 OR 4.00 Credits** This course is designed to investigate ionic equilibrium of electrolytes, chemical kinetic, thermodynamics, electro- chemistry and redox reactions, chemical properties of metals and non-metals, and qualitative analytical separations.

*Prerequisite(s): CHEM 1211K US D or CHM 202 UG D or CHEM*

*1211 US D.*

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**CHEM 2301K - Organic Chemistry I ........00 OR 4.00 Credits**

In this course the student will examine modern concepts of reactions from a structural, synthetic and mechanistic approach exploring detailed studies of aliphatic nucleophilic, aromatic electrophilic and free-radical reaction types. The chemistry of carbonation and free- radical intermediates are also covered extensively.

*Prerequisite(s): CHEM 1212 US D or CHM 203 UG D or CHEM*

*1212K US D.*

**CHEM 2302K - Organic Chemistry II ......00 OR 4.00 Credits**

In this course, a continuation of the sequences including the study of carbonyl-bearing compounds, the chemistry of carbonium ions is explored and the concept of resonance is further examined. Spectroscopic methods of analysis, including infrared, ultraviolet/visible, mass spectroscopy and nuclear magnetic resonance spectroscopy will be included.

*Prerequisite(s): CHEM 2301K US D or CHEM 2301 US D.*

**CHEM 2310K - Scientific Mathematics ................3.00 Credits** Designed to acquaint students with mathematical concepts used in scientific studies including those required for the laboratory and publications.

*Prerequisite: Permission of instructor.*

**CHEM 2320K - Laboratory**

**Research Techniques....................................00 OR 3.00 Credits** Designed to acquaint students with basic important laboratory techniques and manipulations that are essential for conducting general and biomedical research.

*Prerequisite: Permission of instructor.*

**CHEM 2351K - Quantitative Analysis I ....00 OR 4.00 Credits** This course involves the study of theory and practice of gravimetric and titrimetric analysis with emphasis on solution equilibria as applied to acid-base, precipitation, and complexometric methods. *Prerequisite(s): ( CHEM 1212K US D or CHM 203 US DC or CHEM*

*1212 US DC ). Co-requisite(s): CHEM 2351.*

**CHEM 2352K - Quantitative Analysis II...00 OR 4.00 Credits** This course involves a continuation of the study of analytical methods including oxidation-reduction, titration and an introduction to instrumental methods--potentiometric, spectrophotometric, and chromatographic.

*Prerequisite(s): CHEM 2351K US D or CHEM 2351 US D.*

**CHEM 2415 - Scientific Writing ...........................3.00 Credits** This course is designed to acquaint learners with disco- very-inquiry processes and to provide competencies for writing scientific papers. Prerequisite: permission of instructor.

**CHEM 3221K - Physical Chemistry I........00 OR 4.00 Credits**

In this course, the principles of thermodynamics, including chemical/thermal equilibrium, reversible and irreversible processes, kinetic molecular theory, and reaction kinetics as well as other areas of dynamics are investigated.

*Prerequisite(s): (MATH 2212 US D or taken concurrently or MATH*

*233 UG D) and (CHEM 2301K US D or CHEM 2301 US D ) and (CHEM 2351 US D or CHEM 2351K US D) and (PHYS 2222K US D or PHYS 2222 US D). Co-requisite(s): CHEM 3222.*

**CHEM 3222K - Physical Chemistry II ......00 OR 4.00 Credits** The theory and application of quantum theory and bonding; magnetic and spectral properties of atoms and molecules; and statistical

mechanics are studied in this course.

*Prerequisite(s): (MATH 2212 US D or MTH 233 UG D or taken concurrently) and (CHEM 2301K US D OR CHEM 2301 US D or CHEM 2351K US D or CHEM 2351 US D) and (PHYS 2222K US D or PHYS 2222 US D). Co-requisite(s): CHEM 3222.*

**CHEM 3231 - Intermediate**

**Inorganic Chemistry I .............................................3.00 Credits**

A systematic source in inorganic chemistry that investigates topics in group theory, bonding, acid-base chemistry, non-aqueous solvents, the solid state, and chemistry of the main elemental groups. *Prerequisite(s): CHEM 3222K US D or CHEM 3222 US D.*

**CHEM 3232 - Intermediate Inorganic**

**Chemistry II .............................................................3.00 Credits** This course involves a study of the transition elements including bonding of coordination compounds, stereo-chemistry and reactions, and an introduction to organ metallic chemistry and catalysis. *Prerequisite(s): CHEM 3231 US D or CHM 425 UG D.*

**CHEM 3250K - Biochemistry .....................00 OR 4.00 Credits**

In this course, the student examines the structure function, and metabolism of carbohydrates, amino acids and proteins, lipids, and nucleic acids. (Topics include bioenergetics, enzyme kinetics, photosynthesis, and the interdependence of the various metabolic pathways of intermediate metabolism)

*Prerequisite(s): CHEM 2302 US D or CHEM 2302K US D.*

**CHEM 4100K - Instrumental Analysis ......00 OR 4.00 Credits**

In this course, the student will study the principles and application of modern instrumental methods of analysis with special emphasis onspectrophotometric, chromatographic, electroanalytical and radiochemical techniques.

*Prerequisite(s): (HEM 3222K US D or CHEM 3222 US D.*

**CHEM 4110 - Chemical Literature.......................1.00 Credits**

A course designed to acquaint the student with ethics, governmental regulations of chemicals in the work place, and sources of information from journals to databases that are currently available. *Prerequisite: Senior status.*

**CHEM 4111 - Junior Seminar ................................1.00 Credits**

A course designed to train students in using science literature and presenting scientific information. Students will review scientific writing styles and presentation formats, prepare a poster presentation, and observe and evaluate scientific presentations by invited guest, ASU faculty and senior students.

*Prerequisite: Junior status.*

**CHEM 4120 - Senior Research I ...........................1.00 Credits**

**Course**

**Descriptions**

Must be enrolled in one of the following Class(s): Senior

In this course, students will present preliminary plans/ background of their senior research problem after a review of the current literature. *Prerequisite: CHEM 4111 US D.*

**CHEM 4130K - Senior Research II............00 OR 3.00 Credits** Must be enrolled in one of the following Class(s): Senior In this course, students select a research area in chemistry and the final written report is completed as a senior thesis (Off campus research experience or industrial co-op/ internships may be substituted if taken at the junior/senior level).

*Prerequisite(s): CHEM 4120 US D*.

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**CHEM 4140 - Advanced Biochemistry.................3.00 Credits** This course examines detailed biochemical pathways and elucidates the nature and mechanism of these reactions with special emphasis on the quantification of the chemical components of cells. *Prerequisite(s): CHEM 3250K US D or CHEM 3250 US D.*

**CHEM 4150K - Computational Chemistry.00 OR 3.00 Credits** Computer application of molecular orbital calculation using semi- empirical and abinitio programs incorporating molecular modeling aspects are investigated in this course.

*Prerequisite(s): CHEM 3222K US D or CHEM 3222 US D.*

**CHEM 4160 - Special Topics in Chemistry ..........2.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior This course is designed to allow students and faculty to explore some topics in greater detail than in a regular classroom setting, or to allow the introduction of such additional topics as specific areas of biochemistry, chemical physics, polymer chemistry, bio- analytical and environmental chemistry.

*Prerequisite: permission of instructor. (May be repeated twice.)*

**CHEM 4170L - Special Laboratory Problems......2.00 Credits** This course is similar to Special Topics in Chemistry (CHEM 4160) but involves laboratory experiences.

*Prerequisite: Senior status and permission of instructor.*

**CHEM 4180K - Topics in**

**Research Technology ...................................00 OR 4.00 Credits** This course examines relevant methods and techniques that are used in biomedical research.

*Prerequisite: Permission of instructor.*

**Computer Science**

**CSCI 1003 - Introduction to Technology ..............2.00 Credits**

An introduction to trends in technology including computers and peripheral devices, functional units, operating systems, computer language, computer applications, hardware, software, mouse, LCD panels, CD-ROMS, scanners and categories of printers. (Optional course).

**CSCI 1101 - Introduction to Computers ..............3.00 Credits** This course covers the general computer concepts. This includes computer hardware and software, peripheral devices, the internet and electronic mail. Application software packages such as word- processing, spreadsheet, web page and development will be included.

*Prerequisite: none*

**CSCI 1201 - Intro to Computer Science ...............3.00 Credits** The course covers an introduction to the field of Computer Science. Topics to be covered include data representation, hardware, software, problem solving and algorithm design, an overview of operating systems, and web page design.

**Course**

**Descriptions**

**CSCI 1301 - Computer Science I ...............00 OR 4.00 Credits** This course is an overview of computers and programming; problem- solving and algorithm development; simple data types; arithmetic and logical operators; selection structures; text files; arrays; procedural abstraction and software design; modular programming. A high level programming language (currently Java) will be used.

*Prerequisites: CSCI 1201* .

**CSCI 1302 - Computer Science II .............00 OR 4.00 Credits**

This course is an overview of abstract data types; multi- dimensional arrays and records; sets and strings; binary searching and sorting; introductory algorithm analysis; recursion; pointers and linked lists; software engineering concepts; dynamic data structures. A high level programming (currently JAVA) will be used.

*Prerequisite: CSCI 1301.*

**CSCI 2211 - Visual Basic Programming...............3.00 Credits** This course covers the fundamentals of Visual BASIC controls, object types, events, and methods. Topics include creating user interface, setting properties, designing class modules, introduction of Visual BASIC front-end applications for database.

*Prerequisite: CSCI 1301.*

**CSCI 2231 - COBOL Programming .........................4.00 Credits**

This course examines the COBOL language. It includes such topics as program design, program planning, flowcharting, the COBOL programming statements, sorting, file handling, lists, tables, and the generation of reports. It also concentrates on preparing IPO charts, constructing hierarchy charts, designing files, designing screens for input and output, designing forms for printer output, sequential file updating, indexed sequential file processing, writing efficient file editing routines, and algorithm development.

*Prerequisite: CSCI 1201 or permission of instructor.*

**` CSCI 2300 - Computational Informatics I…………….3 Credits**

This course offers an introduction to computational informatics science of how information is represented and transmitted in biological systems. Students will learn Biological Technical Scenes, Patterns and Downloading Datasets (Protein Databanks, SWISS-PROT, EMBL and GenBank), Database Management (Pharmacogenomics and Aggression), Search Engines Algorithms (Intelligent Agents and User Interface Tools Programming with PERL Database), Data Mining (Statistics and Sampling), Web Technologies (Internet Sequence Retrieval System) and Data Visualization (Animation and Visualization Tools)

*Prerequisite: BIOL 1111 or permission of instructor*

**CSCI 2311 - Advanced Visual Basic Programming ..….3 Credits**

Advanced Visual Basic will incorporate the basic concepts of programming and the design techniques of an object oriented language. It covers advanced internet and user interface features and applications; error handling; graphics, database, and XML applications. A second course is needed to cover the database concepts, web applications and advanced programming techniques. The general elective credit hours will increase and the institution’s overall degree requirement will not be affected.

*Prerequisite: CSCI 2211*

**CSCI 3111 - Discrete Structures ............................3.00 Credits** This course includes topics such as logic, sets, relations, functions, counting techniques, mathematical induction, graphs representation, combinatorial problems, elementary graph theory, network work flow, recursion and finite state machine.

*Prerequisite: CSCI 1301*

**CSCI 3122 - Data Structures .................................3.00 Credits** This course is a study of the basic concepts and the representation of data using the language C++, such as static and dynamic allocations, trees, and graphs, storage systems and structures, searching and sorting techniques.

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Prerequisite: CSCI 1302 or permission of instructor.

CSCI 3132 - Database Management .....................3.00 Credits

This course concentrates on defining and designing database systems. It covers such types as data modeling, management algorithms, query language, record insertion and deletion, sorting, creation of indexes, updating the database, and implementing the database.

Prerequisite: CSCI 1302.

CSCI 3200 - Design & Analysis of Algorithms 3 Credits

This course is about the systematic study of the design and analysis of algorithms. The course covers the fundamental techniques used to design efficient algorithms with the analysis of the efficiency. It covers several group of algorithms, such as graph, search, computational, genetic, sorting, heuristic and approximate algorithms.

Prerequisite: CSCI 3122

CSCI 3211 - Computer Org and Architecture I...3.00 Credits This course is the study of hardware and software concepts of digital computer systems, with emphasis on fundamental system software and details of hardware operation. Topics include virtual machines, system organization, digital logic and assembly language programming.

Prerequisite: CSCI 1301

CSCI 3212 - Computer Org & Architecture II ....3.00 Credits This course is the continuation of Computer Organization I. Topics include instruction and data formats, addressing modes, instruction types, flow of control, micro-programming, and advanced computer architecture, including RISC machines and parallel architecture.

Prerequisite: CSCI 3211 .

CSCI 3300 - High Performance Computing 3 Credits

The course provides sufficient justification to investigate the concept of parallel processing. The course covers four steps that are involved in performing a computational problem in parallel: architecture, algorithm, map the problem into a suitable parallel computer, and writing a parallel program utilizing an applicable parallel programming approach. The applications are representative of a host of situations in which the probability of success in performing a computational task is increased through the use of parallel processing.

Prerequisite: CSCI 3211

CSCI 4113 - Operating Systems ............................3.00 Credits This course involves the operating system architecture and the manner in which computer operating systems interact with machine hardware to provide a total system. The study of operating systems by combining a careful examination of theoretical issues with real-world, hands-on problems and examples. The implementation examples are drawn from the commercial operating systems.

Prerequisite : CSCI 3122 .

CSCI 4123 - Computer Networks .........................3.00 Credits This course is the study of Network Planning and Network Design, Understanding Networks by understanding their components and their functions, and defining different Network Operating Systems. This course provides insight into new technologies, such as ATM, ISDN, and wireless networks. The implentation examples are drawn from the commercial network operating systems.

Prerequisite: CSCI 4113.

CSCI 4151 - Systems Simulation.....................3.00 Credits

An introduction to problem solving using simulation methods and tools. Topics include construction of deterministic and stochastic models, identification of system parameters, correlation of models and systems.

Prerequisite: CSCI 3122.

CSCI 4211 - Systems Analysis I .............................3.00 Credits This course provides the students with an introduction to technical and management issues in systems analysis and design. The course covers various issues in the Systems Development Life Circle (SDLC) model, CASE tools and their impact on SDLC, the systems analyst and the different roles of a systems analyst in an organization. It introduces students to various information gathering techniques, tools for project management, issues and models for sampling data sources, ER diagrams, data flow diagrams and data dictionaries. It includes an in-depth treatment of prototyping. It also covers issues in decision-making, process specification techniques and principles of structured design.

Prerequisite: CSCI 1302 .

CSCI 4212 - Systems Analysis II .....................3.00 Credits This course is a continuation of the introductory course in systems analysis and design. The course provides an in-depth treatment of objected-oriented analysis and design concepts as applied to systems development. It introduces the students to various tools used in design and analysis of large software systems. It covers various issues in designing effective inputs and outputs, data-entry procedures, designing user interfaces and a comprehensive overview of the different types of dialogues and queries for interface design. Related issues in quality assurance, user training and evaluation techniques are also discussed.

Prerequisites: CSCI 4211

CSCI 4221 - Software Engineering ..................3.00 Credits This course provides an introduction to software engineering methodologies, addressing each phase in the life cycle of software. Topics include system and software analysis, design, implementation and maintenance, software system development and management. CASE tools will be discussed also.

Prerequisite: CSCI 3122 .

CSCI 4311 - Computer Graphics .....................3.00 Credits

This course will provide students with the basic knowledge and experience necessary to use computers to create graphics and to process images. The hardware and software components of graphics systems are examined with a major emphasis on methods for design of 2-D and 3-D graphics. Algorithms for creating and manipulating graphics displays and techniques for implementing the algorithm are introduced.

Prerequisite: CSCI 3122 .

CSCI 4411 - Artificial Intelligence ...................3.00 Credits This course covers the basic concepts of artificial intelligence including production systems, knowledge representation, pattern matching, heuristic search, and logical and probabilistic reasoning. The social, cultural, and economic impact of artificial intelligence are discussed.

Prerequisite: CSCI 3111 .

CSCI 4911 - Special Topics CSC/Computer

Information Systems ...............................................3.00 Credits This course covers current topics in Computer Science and Computer Information Systems of special interest to faculty and students.

Prerequisite: Permission of instructor.

CSCI 4915 - Web Design and Development .........3.00 Credits This course will cover the fundamental concepts of web development. The study of the theory and languages related to Web Design and Development will also be discussed. Topics include client/server architecture, W3C HTML 4 specifications, CSS, DHTML, XML, VB and Java Scripts, Active Serve Page and PHP: Hypertext Preprocessor. Prerequisite(s): CSCI 3122 and CSCI 2211.

CSCI 4921 - Senior Project I 1 Credit

In this course, students will broaden their educational experience by reading and understanding technical literature in the areas of mathematics and computer science, organizing and writing a professional-level proposal, attending seminars and preparing a professional-level presentation. Students will draw upon and synthesize knowledge from their previous course work. Though revision of both the proposal and the oral presentation, students will improve their ability to communicate the main ideas.

Prerequisite: Senior Students

CSCI 4922 - Senior Project II 2 Credits

In this course, students will broaden their educational experience by reading and understanding technical literature in the areas of mathematics and computer science, organizing and writing a professional-level paper, project implementation and coding, attending seminars and preparing a professional-level presentation. Project implementation should satisfy all requirements mentioned in the approved proposal accomplished during the course CSCI 4921. Students will draw upon and synthesize knowledge from their previous course work and educational experience.

Prerequisite: Senior Students and CSCI 4921

Cooperative Education

COOE 2299 - Coop Education ..............................3.00 Credits This field based practicum is designed as the first cooperative education experience for the student. It introduces the student to specific periods of well-planned vocational employment experiences in business, industry and government, and is a general introduction to Cooperative Education for the new student.

COOE 3399 - Coop Education ..............................3.00 Credits This field based practicum is designed as the second cooperative education experience for the student. It is related to the student's major field of study and is designed to enrich classroom theory with practical experience in business, industry and government. It presents opportunities for reality-testing of career goals and provides a realistic orientation to the world of work. Thus, it provides valuable experience in developing attitudes and skills essential to satisfactory working relationships with supervisors and fellow workers.

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COOE 4499 - Coop Education ..............................3.00 Credits This field based practicum is designed as the completion of the cooperative education experience for the student. The level of difficulty is commensurate with the academic progress of the student. It sets the stage for the student's total concept of cooperative education and suggests means by which the experience can be utilized to the greatest personal excitement and advantage. It provides a greater knowledge of the needs of students, develops a base for perceptions and self-evaluation, and will afford the student an opportunity to explore additional career options prior to making a final career choice.

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**Criminal Justice**

**CRJU 1100 - Intro. to Criminal Justice ...............3.00 Credits** This is a survey course of the essential components of the criminal justice system. These components include police, courts and corrections. The interrelationships between components are illustrated. Processes and procedures within each component are reviewed. This survey course is a prerequisite to subsequent upper division courses.

**CRJU 2200 - Intro to Law Enforcement ..............3.00 Credits** This course is required for students majoring in criminal justice. This is a study of the philosophy and history of law enforcement at the

federal, state, county and city levels. It is designed to expose

students to the characteristics and operational missions of federal,

state and local law enforcement agencies. Special emphasis will be placed on historical influences and conflicting roles with which the profession has struggled. Students become familiar with policing goals, contemporary police organizations and methods of operations, police culture and approaches to community police and problem- oriented policing.

**CRJU 2210 - Intro. to Criminal Law & Procedure3.00 Credits** This course includes an historical overview of criminal procedure including criminal procedure and common law. The Constitution's impact on criminal procedure and the impact of the Supreme Court are included in this overview. Probable cause and the requirements of search warrants are central issues. Arrests, illegal seizures, the exclusionary rule and the appeals process are examined.

**CRJU 2400 - Report Writing & Research Skill ...3.00 Credits** This course is designed as a departmental effort to improve the writing skills of criminal justice majors, including technical and agency requirements in properly formatting reports. Students will utilize library resources, compiling bibliographies and abstracting articles.

*Prerequisite: CRJU 1100.*

**CRJU 2500 - Constitutional Proc in CRJU..........3.00 Credits** Practices and procedures of criminal justice personnel are regulated by Constitutional principles and safeguards. This course focuses on the nature of due process and equal protection requirements as they apply in criminal justice settings. Special attention is given to the major components of the criminal justice settings. Special attention is given to the major components of the criminal justice system. These components are police, prosecution, courts, corrections and the juvenile justice system.

*Prerequisite: CRJU 1100.*

**CRJU 2600 - Juvenile Delinquency.......................3.00 Credits** This is a survey course of the juvenile justice system. Attention is given to theories of juvenile delinquency, legal processes in responding to delinquency and the treatment approaches utilized in the juvenile justice system.

*Prerequisite: CRJU 1100 .*

**CRJU 2700 - Police Communication Relations ...3.00 Credits** This course includes problems in citizens relations, treatment of victims, witnesses and jurors, citizen involvement in the Criminal Justice process and community resources related to Criminal Justice programming.

*Prerequisite: CRJU 1100.*

**CRJU 2800 - Intro to American Correction Systems3.00 Credits** This is an interdisciplinary overview of the American Correctional System. Corrections refers to the sentencing, imprisonment and treatment of offenders coming to the attention of officials in criminal justice. Topics include the history of the American Prison System, research conducted on the inmate subculture, structure and of corrections, case law on prisoner rights litigation and community based corrections.

*Prerequisites: CRJU 1100*

**CRJU 2900 - Criminology......................................3.00 Credits** Criminology is the study of the amount of crime in society theories of crime causation and the origins of criminal law. Elements of corpus delicate and the different methods of measuring crime are considered. The focus of the course is on the major schools of criminology: classical school, positive school and critical school. Empirical research studies within each school will be reviewed. *Prerequisite: CRJU 1100.*

**CRJU 2910 - Organization and**

**Administration of CRJU .........................................3.00 Credits** May not be enrolled in one of the following Level(s): ALL LEVELS This course provided an analysis of the basic principles of administration and management as they apply to criminal justice agencies. Emphasis is placed on theories of bureaucracy, exercise of power planning and models of decision making. Principles of organization are applied to police, courts and corrections. *Prerequisite: CRJU 1100.*

**CRJU 3000 - Global Terrorism .............................3.00 Credits** This course will focus on worldwide terrorism as an evolving phenomenon, from both historical and contemporary viewpoints. Students will derive their own definitions of what constitutes "terrorism" and "terrorists" from a wide-ranging study of the groups and individuals associated with politicized action by force and violence. In doing so, the class will attempt to arrive at a consensus regarding the effects of terrorism and the responses to it, both by governments and by citizens at large. Terrorist methods, weapons, and tactics will be examined in detail. Finally, each student will be assigned a region of the globe for particular study and will prepare a Term Paper in which past and current terror events will be reviewed and analyzed, and a forecast will be prepared (and defended) of what my be expected in the future.

*Prerequisite: CRJU 1100.*

**CRJU 3300 - Comp Inter legal System .................3.00 Credits** This course, although designed specifically for a Student Study Abroad Program, can also be offered in-residence at Albany State University, as well as in future student study abroad programs in various countries. The course seeks to enhance the student's knowledge of legal theories and practices in selected countries throughout the world. Comparisons of different countries and their systems for responding to various legal issues and dilemmas with an emphasis on various law enforcement structures and strategies, court systems, and correctional systems.

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**CRJU 3410 - Criminal Justice Research ..............3.00 Credits** This is a survey course on the methods/procedures of conducting social science research. Empirical methods utilized in sociology, psychology, economics and journalism are reviewed, sampling techniques and various approaches to hypothesis testing are emphasized.

*Prerequisites: CRJU 1100, CRJU 2400 or CRJU 2900.*

**CRJU 3420 - Research Statistics ...........................3.00 Credits** This is a survey of descriptive and inferential statistics used in Criminal Justice research. Applications of parametric and nonparametric methods of hypothesis testing constitute the emphasis of the course. Measures of central tendency and dispersion are related to inferences to population parameters. Pearson's Product Moment correlation, regression, analysis of variance and other tests of sample means are reviewed.

*Prerequisites: CRJU 1100, CRJU 3410.*

**CRJU 3530 - CRJU Ethics and Professionals ......3.00 Credits**

No field of professional employment is more strewn with ethical considerations than the area of criminal justice. As students leave to join the work force they must be prepared to act professionally and ethically in any number intense situations. Further, students will be exposed to concepts and ethical points is critical to the success of their professional careers. Students will leave this with an increased awareness and concern for ethical issues in criminal justice, and a firm understanding of the importance of professionalism in their efforts for career advancement.

*Prerequisite: CRJU 1100 and CRJU 2400.*

**CRJU 4130 - Law Enforcement**

**and Legal Proc .........................................................3.00 Credits** This course includes analysis of the legal aspects of police activities including investigation, arrests, searches and seizures; study of Constitutional and statutory law and decisions of the United States Supreme Court and the Georgia Court of Criminal Appeals. *Prerequisites: CRJU 1100 and CRJU 2210.*

**CRJU 4210 - Philosophy of**

**Law & Punishment..................................................3.00 Credits** This course exposes students to the various philosophies that laws and systems of punishment are based on today. The history of law in society is reviewed. Due Process and Crime Control philosophies are compared and contrasted. Each philosophy is applied to the various stages of criminal justice processing: arrest, trial, appeals and corrections. Various works of key philosophers in the field will be presented and discussed.

*Prerequisites: CRJU 1100 and CRJU 2900.*

**CRJU 4340 - Corrections and the Legal Proc......3.00 Credits** This course provides a review of major federal court cases impacting correctional processes and procedures. Emphasis is given to Supreme Court decisions relating to prisoner rights under the first, fourth, fifth, eighth and four- tenth amendments of the Constitution. Also, an analysis of the "hands on doctrine" as it relates to judicial intervention will be included.

*Prerequisites: CRJU 1100 and CRJU 2500.*

**CRJU 4350 - Treatment/Testing/Evaluation**

**in Correction ............................................................3.00 Credits** Treatment and the tests and measures used in its implementation are reviewed in this course. Details of the different approaches used in the correctional process along with a presentation of testing instruments utilized in the treatment process are presented. Emphasis is placed on the theoretical basis for treatment programs in corrections, along with the importance of tests and measurements in program design and evaluation.

*Prerequisites: CRJU 1100 and CRJU 2900.*

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**CRJU 4360 - Community Based Corrections ......3.00 Credits**

An in-depth analysis of the origins and philosophy of community based corrections is given. Diversion is discussed in an historical context. Various forms of community based corrections include probation, parole, house arrest, electronic monitoring and offender boot camp. The role and functions of halfway houses and community transitional centers are an important aspect of community based corrections. Schools of criminology and theories of punishment are related to various forms of community based corrections.

*Prerequisites: CRJU 1100 and CRJU 2800 or CRJU 2900.*

**CRJU 4510 - Organized/White Collar Crime ......3.00 Credits** Conceptual distinctions are drawn between organized and white collar crime. There is a review of the causes and consequences of both forms of crime in contemporary society. Theories of white collar and organized crime will be classified into the following categories: social psychological and structural (societal). Society's response to both forms of crime include federal statutes, newspaper publicity and debarment from occupational opportunities. *Prerequisites: CRJU 1100.*

**CRJU 4520 - Drugs and Crime .............................3.00 Credits** Chemical dependency is correlated to a number of societal problems including crime, poverty and unemployment. This course estimates the prevalence of drug use, types and amounts of drugs on the market, relationship between drug use and crime and various explanations of this relation- ship. Stages of drug dependency are reviewed. Demand and supply side approaches to the war on drugs are compared and contrasted. Demand side approaches include drug testing, drug treatment programs and other prevention activities. *Prerequisites: CRJU 1100 and CRJU*

*2900.*

**CRJU 4530 - Comparative Criminology ..............3.00 Credits** This course provides a review of theories and practices of crime and criminal justice systems in other countries throughout the world. Comparisons of different nations and their systems for responding to crime and delinquency will be made. Differential explanations of crime and delinquency will be discussed. *Prerequisites: CRJU 1100, CRJU 2900.*

**CRJU 4610 - Internship.........................3.00 TO 12.00 Credits** This course provides junior or senior students with an opportunity to gain practical experience in a criminal justice agency setting. Prior to enrolling in Internship, students must have a minimum cumulative grade point average of 2.2 and must have completed CRJU 1100 and CRJU 2400 with a minimum grade of C. Successful completion of CRJU 4610 requires a final report and supervisory evaluation of the student by the agency. Agencies must be approved in advance by the faculty member coordinating internship activities.

*Prerequisites: CRJU 1100, CRJU 2900*

**CRJU 4620 - Special Topics ...................................3.00 Credits** This course will allow students to participate in specialized classes on a variety of topics. These topics will be presented by visiting scholars, faculty completing research in specialized areas, faculty returning from sabbaticals, and exchange faculty from other institutions and countries. Examples of the type of courses that would be offered in CRJU 4620 are as follows: International Crime, Crime and the African American Experience, German Criminal Justice System, Computers and Crime. This course is designed to allow students access to the most current and diverse subject matter available to the department on a continuing basis. Course syllabi will vary from course to course.

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*Prerequisites: CRJU 1100,*

**CRJU 4630 - Race, Gender and CRJU.................3.00 Credits** This course examines race and gender in the criminal justice system. Comparisons of system treatment of males and female majority race and non-majority races, specifically the African- American race will be examined. Specific issues include, but are not limited to the disproportionate representation African

Americans in American correctional system, the disparate treatment of females in the criminal justice system, racial profiling, jury composition and nullification, bail and sentencing options, the creating and enforcement of drug policy and immigrating issues. *Prerequisites: CRJU 1100, and CRJU 2900.*

**CRJU 4650 - The Court Systems in USA .............3.00 Credits** This course is designed to familiarize students with the United States court system and our system of justice as implemented through the civil and criminal procedures. The course will examine and assess the interdependence of our judiciary, and the role that politics and public policy play. Federal and state court structures will be examined; including appellate, lower and juvenile courts, and students will familiarize themselves including appellate, lower and juvenile courts, and students will familiarize themselves with the various judicial, legal, and political personnel who impact our courts. CRJU-1100 and CRJU 2210 or CRJU-2500

**CRJU 4999 - Senior Capstone Seminar...............3.00 Credits** Must be enrolled in one of the following Class(s): Senior. This course is designed to expose students to the most advanced information available in the field of Criminal Justice. Students will also be taught how to utilize this information during their coming professional careers. New technology in the field of Criminal Justice will be taught to students. Students will learn how to use this technology and become proficient in its utilization. Further students will be taught where information relating to Criminal Justice is located and how to access this information. Finally the ability to synthesize large amounts of information into a coherent report of a subject areawill be instilled in students. Graduating Seniors only.

**Learning Support Courses**

**ENGL 0099 - Basic English........................00 OR 4.00 Credits** This course is designed to prepare students for freshman English composition. It is designed to reinforce and refine grammatical and mechanical skills of students. It services as a review of basic principles of English usage including fundamentals of sentence patterns, grammar, punctuation and as an introduction to the writing of short paragraphs and essays.

**MATH 0097 - Basic Mathematics..............00 OR 4.00 Credits** This course is a study of pre-algebra and elementary algebra including the fundamental operations of fractions and decimals. It is designed to help students with a limited background in algebra learn the fundamentals and manipulation of a first course in algebra. Algebra topics include a study of the real numbers, linear equations and inequalities, operations of polynomials, and factoring polynomials.

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**MATH 0099 - Basic Mathematics..............00 OR 4.00 Credits** This course is a study of intermediate algebra. It is designed to enhance the student's knowledge of algebraic computational skills and to prepare the student for college level mathematics. Topics include a review of factoring polynomials, graphs of equations and inequalities, systems of equations, fractional expressions and equations, radical expressions and equations, quadratic equations, and exponential and logarithmic functions.

**READ 0099 - Developmental Reading ......00 OR 4.00 Credits**  Students will approach reading from four areas: literal, critical, effective and interpretive and will spend time improving personal vocabularies and preparing for standardized tests.

**Driver Education**

**DEDP 4468 Driver and Traffic Safety Education ..........3 (3-0)** This course is designed to give critical analysis of traffic accidents, attitude factors and essential knowledge of automobile operation, laws and regulations including laboratory experience for developing skills. *Prerequisite: A valid driver’s license and upper division standing.*

**DEDP 4469 - The Teaching of Driver Safety ..................3 (3-0)** This course is designed to prepare teachers to organize and teach driver education and traffic safety in secondary schools. Course provides a comprehensive survey of methods that have been proven to be effective in the field of driver and traffic education. *Prerequisite: A valid driver’s license, a good driving experience record for the previous two years and HEDP 2267.*

DEDP 4470 **Physical Education –**

**Multiple Car Facility.........................................................3 (2-2)** Organization, administration and management of off-street driving facilities. The facilities on an off-campus site are utilized. *Prerequisite: DEDP 4469.*

**Early Childhood Education**

**ECEC 3200 Curriculum in ECE ............................3.00 Credits** Examines the philosophical, psychological and sociological basis for selecting curricula for children newborn though nine.

**ECEC 3319 Quantitative Skills**

**for Young Children ..................................................3.00 Credits** Considers methods of teaching math concepts to early childhood students of all ability levels. Problem solving strategies are examined. Required.

**ECEC 3322 Reading Through Children's Literature/Language Art.........................................3.00 Credits** Study of the literature published for children, with emphasis upon traditional literature, current trends and reading guidance, and the use of books and materials in educational development, Includes study of Language Arts.

**ECEC 3354 Science for Young Children ...............3.00 Credits** This course considers different methods and materials for teaching science to preschool and primary age students. Observation- laboratory experiences are included

**ECEC 3355 Developmental Reading .....................3.00 Credits** Teaching techniques and materials for developmental reading. Emphasis on emergent literary, whole language, as well as traditional approaches to reading instruction.

**ECEC 4400 Social Studies,**

**Studies & Culture Diversity ...................................3.00 Credits**

A study to the social studies curriculum for toddlers, preschool and grades K-4. An exploration of multicultured concepts of the family, neighborhood, community and society.

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**ECEC 4420 Preschool Education ...........................3.00 Credits** Focuses on various preschools and their philosophies as related to young children.

**ECEC 4423 Corrective Reading in ECEC ............3.00 Credits** Provides prospective classroom teachers with and understanding of reading difficulties plus practical experiences in the diagnosis, assessment, and prescription of corrective treatment of reading problems.

*Prerequisite: ECEC 3355.*

**ECEC 4460 Student Teaching ..............................12.00 Credits** Student teaching in the early childhood grades. Observation and teaching for one semester under the direction of and approved supervising teacher in selected kindergarten and early elementary schools.

**ECEC 4490 Internship I in ECEC .........................6.00 Credits** Supervised internship in an approved Early Childhood instructional setting. Designed for selected teachers with a provisional certificate in the field of intended certification. Departmental approval.

**ECEC 4491 Internship II in ECEC .......................6.00 Credits** Supervised internship in an approved Early Childhood instructional setting. Designed for selected teachers with a provisional certificate in the field of intended certification

**ECEC 4500 Remedial Reading: A Practicum .......3.00 Credits** Examines issues associated with struggling readers with emphasis on evidence-based instructional strategies. Provides authentic field experience to assist with application of scientifically-based practices in reading education.

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**Economics**

**ECOs 2105 - Principles of Macroeconomics ........3.00 Credits** Introduces students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies.

**ECOs 2106 - Principles of Microeconomics .........3.00 Credits** Introduces students to concepts that will enable them to understand and analyze structure and performance of the market economy.

**ECOs 2201 - Survey of Economics .......................3.00 Credits** This course focuses on the basic operations of the United States economy and designed for students who desire a one-term course in the principles of economics. Principles of microeconomics and macroeconomics their applications to real-world economic issues.

(For non-business majors).

**ECOs 3145 - Money, Banking &**

**Foreign Exchange ....................................................3.00 Credits** The nature of money standards, Federal Reserve system, theory of money, credit and banking.

*Prerequisite(s): (ECO, 2105 US C or ECO, 2106 UG C)*

**ECOs 3205 - Economics and**

**Business Statistics ....................................................3.00 Credits** The application of statistical techniques to economic and business problems. Topics include descriptive statistics, introduction to probability theory, confidence internal estimation and hypothesis testing, sampling techniques, and business forecasting.

*Prerequisite: ECO, 2105 and ECO, 2106*

**ECOs 4105 - Intermediate Macroeconomics .......3.00 Credits** Factors determining aggregate employment, output, income, price- level, economic growth and fluctuations.

*Prerequisite: ECO, 2105 and senior standing.*

**ECOs 4106 - Intermediate Microeconomics ........3.00 Credits** The individual economic unit, the consumer and the firm. Factors underlying the determination of price and output in different market situations.

*Prerequisite: ECO, 2106 and senior standing.*

**ECOs 4107 - Managerial Economics ....................3.00 Credits**

An application of economic theory in managerial decisions. Includes analysis of markets, demand, cost, capital budgeting and price policy. *Prerequisite: ECO, 4106 and senior standing.*

**ECOs 4205 - Elements of Econometrics...............3.00 Credits** May not be enrolled in one of the following Class(s): Freshman, Junior, Sophomore. The mathematical formulation of economic theories, the use of statistical procedures to measure the theoretical relationships and to verify or reject such theories.

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*Prerequisites: ECO, 2105, ECO, 2106,ECO, 3205, and Senior*

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**ECOs 4305 - Environmental Economics ..............3.00 Credits** Deals with depleting natural resources and human resources as factors of production.

*Prerequisite: ECO, 2105 and ECO, 2106.*

**ECOs 4405 - International Trade & Finance.......3.00 Credits** Theory of international trade and commercial policy, international finance and current problems of international finance and current

problems of international trade.

*Prerequisites: ECO, 2105, ECO, 2106, and senior standing.*

**ECOs 4505 – Economic Policy of Multinational Corporations ............................................................3.00 Credits** Provides a base for understanding the economic policies of multinational corporations.

*Prerequisite: ECO, 2105, ECO, 2106.*

**ECOs 4605 - Labor Economics .............................3.00 Credits** Application of economic theory to the labor market and discussion of the study of the impact of unions, government policy and discrimination on the resulting distribution of income.

**ECOs 4705 - Economic History of US ..................3.00 Credits** Primary emphasis on economic forces, political, social and cultural consideration are represented relevant to the economic growth and development process.

*Prerequisite: Senior standing.*

**Education**

**EDUC 2110 Investigating Critical and**

**Contemporary Issues in Education........................3.00 Credits** This course engages students in observations, interactions, and analyses of critical and contemporary educational issues. Students will investigate issues influencing the social and political contexts of educational settings in Georgia and the United States. Students will actively examine the teaching profession from multiple vantage points both within and outside the school. Against this backdrop, students will reflect on and interpret the meaning of education and schooling in a diverse culture and examine the moral and ethical responsibilities of teaching in a democracy.

**EDUC 2120 Exploring Socio-Cult Perspective .....3.00 Credits** Given the rapidly changing demographics in our state and country this course is designed to equip future teachers with the fundamental knowledge of understanding culture and teaching children from diverse backgrounds. Specifically, this course is designed to examine

1) the nature and function of culture; 2) the development of individual

and group cultural identity; 3) definitions and implications of diversity, and 4) the influences of culture on learning, development, and pedagogy

**EDUC 2130 Exploring Teaching and Learning ....3.00 Credits** Explores key aspects of learning and teaching through examining your own learning processes and those of others, with the goal of applying your knowledge to enhance the learning of all students in a variety of educational settings and contexts.

**EDUC 2210 Teach and Media for Teachers ..........3.00 Credits**

An introduction to the use of computers and other media in the instructional process with children in classrooms P-12. Designed to assist beginners to develop skills in using micro-computers as instructional tools.

**EDUC 3301 Directed Classroom Observation ......3.00 Credits**

An individually arranged introductory course of classroom observation in public schools. Open to education minors.

**EDUC 3306 Educational Psychology .....................3.00 Credits**

A course in the applications of psychology to the problems of child growth and development, learning, motivation, measurements, personality adjustments and mental hygiene in school situations.

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**EDUC 3309 Secondary School Curriculum ..........3.00 Credits** Focuses on the relationships between society, instructional planning, students and the teachers in the development of the secondary school curriculum.

**EDUC 3325 Public School Music for Elementary/MG3.00**

**Credit**

Designed as a guide for teaching the phase of music usually handled by classroom teachers.

**EDUC 3350 Public School Health Education .......3.00 Credits** Deals with the school program, the teacher in school health services, healthful school environment and health instruction received from biological, psychological, ethical and health aspects.

**EDUC 3363 MM in Physical Education**

**on the Secondary Level ...........................................3.00 Credits** A study of the principles underlying the selection and use of teaching techniques on the secondary level. A survey of the materials in relation to curricular needs and the needs of the clientele.

**EDUC 3378 Creative/Effective Teaching**

**for Performance Based Learning ...........................3.00 Credits** This course focuses on incorporating effective teaching strategies into the curriculum areas which include physical (gross/fine motor) activities, music, art, movement and an interdisciplinary approach to teaching reading, math, science, social studies and language arts. Activities will be developed for infants, toddlers, primary, primary and children through age 13.

**EDUC 4400 Preparations for Teaching .................2.00 Credits** This seminar is taken the semester immediately preceding Student Teaching. It is designed to assist the Teacher Education major in making the transition from the classroom as a student to the classroom as a Student Teacher, and eventually as a teacher. The prospective Student Teachers examine the roles of classroom teachers and all other personnel.

**EDUC 4405 Methods of Teaching**

**Science Secondary Level .........................................3.00 Credits** This course emphasizes methods and materials for teaching science in the secondary school. Observation required. Pre-requisites:

**EDUC 4412 Student Teaching Secondary ...........12.00 Credits** Observation and teaching for one semester under the direction of an approved supervising teaching in selected schools. Seminar component included.

*Pre-requisite: EDUC 4400*

**EDUC 4420 Methods of Teaching English ............3.00 Credits**

A course designed to orient prospective high school teachers to principles and practices of teaching English I the secondary school, with classroom practices in all phases of literature and language. A prerequisite to student teaching.

**EDUC 4441 Teaching Reading in Secondary School3.00 Credits** This is a special methods course in which problems in the teaching of reading will be considered. Some attention will be given to listing the difficulties most frequently encountered in teaching reading as well as plans for over-coming these difficulties.

**EDUC 4450 Measurements and Evaluation..........3.00 Credits** Group test of intelligence, achievement, aptitude and the administration, scoring and interpretation of group tests and the

concept of norms are considered. Use is made of test results for effective guidance of instruction.

**EDUC 4481 Internship in**

**Secondary Education ..............................................6.00 Credits** Classroom teaching of high school age youth in the content area of certification under supervision. Designed for in-service classroom teachers only.

*Prerequisites: Departmental approval.*

**EDUC 4482 Intern II in Secondary School ...........6.00 Credits** Classroom teaching of high school age youth in the content area under supervision. Designed for in-service classroom teachers only.

*Prerequisite: Departmental approval.*

**Engineering**

**ENGR 1103 - Principles of Engineering**

**Analysis/Design ............................................00 OR 3.00 Credits**

In this course, the field of engineering is introduced by an elementary presentation of the principles of the engineering sciences such as mechanics, thermodynamics and scientific computing (utilized in the analysis and design of engineering problems.

*Prerequisite: MATH 1113.*

**ENGR 1200 - Engineering Computing .....00 OR 3.00 Credits** This course is designed to provide students with the basic concepts of structured programming with an emphasis on developing algorithm, pseudo code, flowchart and programming in a modern high level language. Different software tools will be used to introduce various engineering problem solving techniques.

**ENGR 1203 - Engineering Graphics .........00 OR 3.00 Credits**

In this course, an introduction to engineering graphics and design including sketching, drawing, projection theory, tolerances and computer aided graphics will be covered.

**ENGR 2001 - Intro to ENGR Materials ...............3.00 Credits** This course is designed to introduce students to the relationship of structure - property processing of engineering materials. From an understanding of the microstructure of materials and phase diagrams, major mechanical, electrical, chemical, thermal, optical properties as well as material selection and processing for engineering applications will be covered.

*Prerequisite(s): ENGR 1103 and CHEM 1211K.*

**ENGR 2025 - Intro to**

**Signal Processing..........................................00 OR 4.00 Credits** Introduction to signal processing for discrete-time and continuous time signals including topics on filtering, frequency response, Fourier transform, Z transform. The laboratory emphasizes computer based signal processing.

**Course**

**Descriptions**

*Prerequisite: MATH 2111, PHYS 2100 or CSCI 2101.*

**ENGR 2104 - Cross Enrolment/GA Tech/ ..............3.00 Credits**

In this course the principles of material and energy balances, development of energy and material balance equations (as it relates to their applications to chemical systems) and steady state and transient analysis of their applications will be covered. *Prerequisite(s): ( CHEM 1212K US D or CHEM 1212 US D or CHM*

*203 UG D) and ( MATH 2213 US D or MTH 330 UG D ).*

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**ENGR 2201 - Engineering Statics .........................3.00 Credits**

In this course, the principles of statics (vector based) in two and three dimensions will be covered. Concept of force, moment equilibrium principle, truss, center of gravity and friction will be taught by solving realistic problems. This course is designed for Pre Engineering majors. It will satisfy the requirement by Georgia Institute of Technology for the Regents Engineering Transfer Program and the dual degree program.

*Prerequisite(s): (PHYS 2221K US D or PHYS 2221 US D) and E,GR*

*1103 US D. Co-requisite(s): MATH 2213.*

**ENGR 2204 - Statics & Mechanics/Materials......4.00 Credits**

In this course the principles of statics (vector based) in two and three dimensions (as it relates to their applications in the analysis of structures, machines and fiction) and the mechanics of deformable bodies; stress, strain, axial loading, torsion, and bending of beams, principal stresses and Mohr's circle for Plane stress will be covered. Prerequisite: MATH 2213 and PYS 2221K.

*Prerequisite(s): ( MATH 2213 US D or MTH 330 UG D) and (PHYS*

*2221K US D or PHYS 2221 US D).*

**ENGR 2304 - Statics and Dynamics .....................4.00 Credits**

In this course the principles of statics (vector based) in two and three dimensions and their applications in the analysis of structures, friction, machine elements; and the kinematics and kinetics of rigid bodies in plane motion will be covered.

*Prerequisite(s): ( MATH 2213 US D or MTH 330 US D ) and ( PHYS*

*2221K US D or PHYS 2221 US D).*

**ENGR 2404 - Dynamics of Rigid Bodies ..............3.00 Credits**

In this course the kinematics and kinetics of particles and rigid bodies in one and two dimensions in plane motion, kinematics and kinetics of rigid bodies in three-dimensional motion and principles of work, energy and momentum will be covered.

*Prerequisite(s): (E,GR 2204 US D OR E,GR 2201 US D).*

**ENGR 2413 - Electric Circuit Analysis ................3.00 Credits**

In this course the study and analysis of AC and DC electric circuits, circuit elements, steady state and transient analysis and applications will be covered. (Recommended for majors in Electrical Engineering).

*Prerequisite(s): (E,GR 1103 US D PHYS 2222K US D and MATH*

*2213 US D).*

**ENGR 3204 - Fluid Mechanics ..............................3.00 Credits**

In this course principles and applications of fluid mechanics (including fluid statics, equations of motion and energy as applied to incompressible and compressible fluid flows) and dimensional analysis and similarity will be covered.

*Prerequisites: PHYS 221K US C, MATH 3211, E,GR 1103.*

**Course**

**Descriptions**

**ENGR 3313 - Electrical Circuits Electrical Systems2.00 Credits** In this course analysis of AC and DC circuits, electronic elements an introduction to digital and analog electronics logic circuits, Boolean representation, sequential systems, operational amplifiers, and communication systems will be covered. (not for EE majors.) *Prerequisite: E,GR 1103, PHYS 2222K, and MATH 2213.*

**ENGR 3314 - Numerical Methods of Engineers ..3.00 Credits**

In this course Computer modeling and solution of engineering problems using numerical methods and the development of programs using high level languages. (Uses of software such as MATLAB MATHEMATICA will be covered.)

*Prerequisite: E,GR 1103, MATH 2212, MATH 2213, MATH 3211*

*and knowledge of computers.*

**ENGR 3321 - Electronics and Instrument Lab ...3.00 Credits**

In this course experiments involving first order circuits, integrated circuits, Op-Amp Computational elements, combinational and sequential logic, and analog-to-digital conversion systems will be covered.

*Prerequisite: ENGR 2413.*

**ENGR 3404 - Intro to Thermal Engr....................4.00 Credits**

In this course basic theory of the fields of thermodynamics, heat transfer and fluid mechanics and their application to thermal energy systems will be covered (course not recommended for ME majors). *Prerequisites: CHEM 1211K, E,GR 1103, PHYS 2221K and MATH*

*2213.*

**ENGR 3504 - Engineering Thermodynamics ......3.00 Credits**

In this course concepts of thermodynamics, properties of substances, development of the laws of thermodynamics and their applications, second law analysis of thermodynamics systems, power and registration cycles will be covered.

*Prerequisite: E,GR 1103,PHYS 2222K and MATH 2213.*

**English**

**ENGL 1101 - English Composition I.....................3.00 Credits** Designed to teach the mechanics of expression and the development organization of ideas into paragraphs and essays.

*Prerequisite: SAT Critical Thinking Score of 430 or exit from Learning Support*.

**ENGL 1102 - English Composition II .........................3.00 Credits**

A continuation of ENGL 1101, focusing on rhetorical modes and guided development of the research paper.

*Prerequisite: ENGL 1101.*

**ENGL 1125 - Reading Improvement ....................3.00 Credits** Emphasizes vocabulary development, comprehension skills and study skills for students who score below twelfth grade level on the reading entrance test.

**ENGL 2105 - Creative Writing..............................3.00 Credits** Practical experience in imaginative writing, creating original works and developing style and voice through writing and criticism. *Prerequisites:**ENGL 1101, ENGL 1102,**ENGL 2111 and ENGL 2112.*

**ENGL 2111 - World Literature I .................................3.00 Credits**

A survey of the masterpieces of Western literature from Homer to the Renaissance period.

*Prerequisite: ENGL 1102.*

**ENGL 2112 - World Literature II ….......................3.00 Credits** A continuation of ENGL 2111, with emphasis on masterpieces from the Renaissance to the Modern Period.

*Prerequisite:**ENGL 2111.*

**ENGL 2204 - Advanced Composition ...................3.00 Credits** Advanced theory and practice in writing expository prose, with Emphasis on the relationship between structure and style in essay writing.

*Prerequisites: ENGL 1101,**ENGL 1102 and ENGL 2111 and ENGL*

*2112.*

**ENGL 2298 - English Literature ...........................3.00 Credits** A general survey of the works in British literature from the Beginning through Milton and the and the English Civil War. *Prerequisite: ENGL 2406.*

**ENGL 2299 - Survey of Brit Lit II .............................3.00 Credits**

A general survey of the works in British Literature from the

Restoration period through the early 20th century.

*Prerequisite: ENGL 2298.*

**ENGL 2406 - Literary Forms ….................................3.00 Credits**

An introduction to genres, methods, and critical approaches to literature, with emphasis on writing about literature.

*Prerequisite: ENGL 2111.*

**ENGL 2425 - Short Story.............................................3.00 Credits** Development of the short story as a literary form; analysis of its techniques from the works of representative authors.

*Prerequisite: ENGL 2406.*

**ENGL 2550 - Poetry ...............................................3.00 Credits** Major developments in English and American poetry, with focus on the analysis of the techniques of representative authors.

*Prerequisite: ENGL 2406.*

**ENGL 3106 - Technical Writing ..................................3.00 Credits**

An examination of the elements of writing, particularly as they apply to the sciences, business and industry and other technologically- related fields.

*Prerequisite: ENGL 2204.*

**ENGL 3204 - Rhetoric and Adv Writing ....................3.00 Credits**

An advanced level writing course that emphasizes rhetorical linguistic, and stylistic devices employed by effective writers to explain, describe, narrate, evaluate, and persuade.

*Prerequisite: ENGL 2111 with a C.*

**ENGL 3305 - Modern Grammar...........................3.00 Credits** Study of the methods and techniques of modern and traditional grammar, and grammatical analysis.

*Prerequisite ENGL 1101 and ENGL 1102.*

**ENGL 3311 - American Literature .......................3.00 Credits** This course surveys significant and representative authors, movements and genres from the beginnings through the Colonial and Romantic periods.

*Prerequisite: ENGL 2406.*

**ENGL 3312 - American Literature .......................3.00 Credits** This course surveys American literature for the Civil War to the present.

*Prerequisite:**ENGL 3311.*

**ENGL 3603 - Development of English Novel .......3.00 Credits** A survey of global trends and techniques through the study of major novels of representative writers.

*Prerequisite: ENGL 2406.*

**ENGL 3613 - The Modern and Contemporary Novel ......3.00 Credits**

A study of major novels in English, from the turn of the twentieth-century to the present.

*Prerequisite: ENGL 2406.*

**ENGL 3707 - Chaucer ............................................3.00 Credits**

A study of Chaucer's life, times and major works.

*Prerequisite: ENGL 2298.*

**ENGL 3708 - The American Novel........................3.00 Credits** Development of the novel as a literary art form in America. Special attention will be given to form, theme, and aesthetic quality through the study of major and pivotal novels.

*Prerequisite:**ENGL 2406.*

**ENGL 3790 - African-American Literature I ...........3.00 Credits**

A survey of works by representative authors of African American literature from the oral tradition through the Harlem Renaissance.

**ENGL 3791 - African-American Literature II. ......3.00 Credits**

A survey of major authors in African American literature from the

1930's to the present. Focus on writers of the post World War II, Black Arts and contemporary periods.

**ENGL 3799 - Special Topics in**

**Afro American Literature ...........................................3.00 Credits**

An examination of topics in African American literature, including the study of various periods. (e.g., slave narratives, the Harlem Renaissance, the Black Arts movement), genre development (e.g., the African American novel, the short story and poetry), and the study of major authors.

*Prerequisites:**ENGL 2406.*

**ENGL 3825 - Caribbean Literature......................3.00 Credits**

A survey of Caribbean literature in various genres, with special Emphasis on the relationship between Caribbean literature and culture. Poetry, prose and drama will be selected from the colonial and post- colonial independence) periods.

*Prerequisite: ENGL 2406.*

**ENGL 3845 - African Literature ...........................3.00 Credits** A survey of African Literature, including the dynamics of Interaction between African culture and literature in various genres. Poetry, prose and drama will be selected from the pre-colonial, colonial and post-colonial era.

*Prerequisite: ENGL 2406.*

**ENGL 3998 - Undergraduate Research................2.00 Credits** Research on a specific topic under the close supervision of an instructor. Emphasis on student's learning research process and presentation techniques.

**ENGL 4180 - Advanced Writing…………..............3.00 Credits**

*Prerequisite:**ENGL 1102 US C or HONR 1112 US C.*

**Course**

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**ENGL 4304 - History of the English Language ...3.00 Credits** Study of the development of the English language from the fifth century, emphasizing the philological changes which have occurred and their relationship to modern English.

*Prerequisite:**ENGL 2298.*

**ENGL 4600 - Shakespeare .....................................3.00 Credits** Study of Shakespeare's greatest plays and sonnets, with attention to the background of the Elizabethan period.

*Prerequisite:**ENGL 2406.*

**ENGL 4611 - British Renaissance and Reform....3.00 Credits** British literature of the sixteenth and seventeenth centuries up to the English Civil War, with the emphasis on writers such as the lyric, metaphysical, and cavalier poets, non-Shakespearean dramatists, and representative authors including More, Sidney, Spenser, and John Milton.

*Prerequisite: ENGL 2298,**ENGL 2299*

**ENGL 4631 - Restoration and 18th Century .......3.00 Credits** Survey of significant and representative authors, movements, and genres, including the rise of the novel. The course covers material from the Restoration in 1660 to the beginnings of Romanticism in 1785.

*Prerequisites:**ENGL 2298 & ENGL 2299*

**ENGL 4651 - Brit 19th Century Literature .........3.00 Credits** Examines the Romantic and Victorian periods form 1785 to 1990 with attention to the continuing development of the novel and the Romantic theories of poetry, scientific and social discourse, gender and educational issues.

*Prerequisites:**ENGL 2298 & ENGL 2299.*

**ENGL 4908 - Literary Criticism ...........................3.00 Credits** Basic principles of literary criticism and major theories of criticism, their origin and development.

*Prerequisite: ENGL 2406.*

**ENGL 4950 - Intro to Women's Literature ..........3.00 Credits**

A study of select writing by women authors, focusing on themes, genres and major works with attention to historical and cross-cultural contexts.

*Prerequisite: ENGL 2406.*

**ENGL 4955 - Modern and Contemporary Drama ...........3.00 Credits**

A survey of major movements and trends in drama from the late nineteenth century to the present.

*Prerequisite: ENGL 2406*

**ENGL 4980 - Internship.........................................3.00 Credits**

Off-Campus, on-the-job observation and training for students pursuing professional communications work in a variety of traditional and non-traditional careers appropriate to the English discipline. Junior or senior level standing or consent of instructor. *Prerequisite: ENGL 2406.*

**ENGL 4990 - Selected Topics.................................3.00 Credits** Seminar on special topics in literature and languages, including themes, authors, ideas, movements, genres, and rhetoric and composition, may be conducted on an interdisciplinary basis. *Prerequisite: 30 hours above 2000 level. Up to three selected topics can be taken with different subject matter.*

**Course**

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**ENGL 4995 - Senior Seminar I..............................1.00 Credits**

An advanced research methods course designed to guide students through the literary research process, emphasizing an organized approach to critical research in literature. The student will produce an annotated bibliography for a seminar topic.

*Prerequisite: 30 hours of courses at or above the 2000 level.*

**ENGL 4996 - Senior Seminar II ........................................1.00 Credits** Under the direction of a faculty member, each student will develop a seminar paper in MLA format to be delivered at a senior colloquium, exhibiting student research strengths and interests.

*Prerequisite: 40 hours at or above the 2000 level.*

**Entrepreneurship**

**ENTR 3010 - sew Venture Creation......................3.00 Credits** This course concentrates on how new businesses are started. Objectives of the course are understanding entrepreneurs, seeking and evaluating opportunities for new ventures, and gathering resources to convert those opportunities into business. Student projects will include development of business plans for new ventures they have chosen.

**ENTR 3105 - Financing**

**Entrepreneurial Ventures .......................................3.00 Credits** This course covers various aspects of financing and entrepreneurial venture. Major topics include attracting seed and growth capital from sources such as individuals, venture capital, investment banking, government and commercial banks.

**ENTR 4020 - Marketing for Entrepreneurs .........3.00 Credits**

In-depth study of entrepreneurial marketing strategies and techniques. Examines how a start-up or small-to medium sized business with distinct market needs operates within limited budgets. Case method is emphasized.

**ENTR 4105 - E-Commerce .....................................3.00 Credits** This course introduces students to the practical know-how, issues, and theory of doing business on the Internet. The course covers topics such as technologies of e-Commerce (network, software, database, security, and e-payment), current business strategies of e-Commerce, and contemporary issues of e-Commerce.

*Prerequisite: MGMT 3206.*

**ENTR 4120 - Corporate Venturing: Entrepreneurship**

**in Organization ........................................................3.00 Credits** This course provides familiarity with reading and case study analysis leading to a thorough understanding of the four components of corporate venturing-innovation, entrepreneur- ship, leadership and corporate culture. Its goal is to pro- vide overall development of student respect for problems and risks that face entrepreneurial success rates by creating and evaluating opportunity, measuring risk, recognizing cult Ural barriers and opportunities, overcoming obstacles and institutionalizing change.

**ENTR 4130 - Business and Tax Planning ..............3.00 Credits** This course examines common tax, corporate, and securities law concepts. Topics include types of business entities; ownership and control; changes in form of ownership; stock- holder and partnership agreements; compensation; private placement; purchase and sale of assets; dividends, recapitalization and redemptions; installment sales; spin-offs and split-offs; public offerings; and mergers and acquisitions.

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**Finance**

**FINC 3105 - Foundations of Financial Management3.00 Credits** Techniques of financial analysis, including working capital management, capital budgeting dividend and capital structure decisions.

*Prerequisite: ACCT 2101.*

**FINC 4105 - Investment Analysis...........................3.00 Credits** The principles and practices of investment in stocks, bonds and derivatives. Includes the study of investment portfolio management. *Prerequisite: FINC 3105 and ECON 3205.*

**Fine Arts**

**FIAR 1100 - Introduction to Fine Arts .................3.00 Credits**

A general introduction and study of the history and literature of music, the visual arts, and the dramatic arts. Taught in three segments: art, music and the dramatic arts, respectively, the course will provide a developmental over- view of creativity and scholarship in each area of discipline. Also, the course features exposure to and discussion about a selection of the most representative masterworks from each of the disciplines.

**FIAR 1102 - Intro to African Diaspora.................2.00 Credits**

A study of the peoples and cultures of African descent throughout the African Diaspora, especially in Africa, the Caribbean, South America and the United States. Emphasis on the political, social and cultural institutions that have contributed to the development of African Diaspora peoples and cultures. (Cross-listed as HUMA 1002 and HIST 1002)

**Forensic Science**

**FOSC 2100 - Intro to Forensic Science c**

**Crime Investigation .................................... 3.00 Credits**

An introductory look at the various fields of study and how they are used in modern law enforcement. A brief history of forensic science in Europe and the United States. Use of Geology, Anthropology,

Dentistry, Pathology, and Psychiatry in Investigation.

**FOSC 2100/2000 -**

**Intro to FOSC...............................................00 OR 3.00 Credits** Lecture and laboratory course designed to teach investigat or tech- niques in the analysis of physical evidence; designed for profes- sional lab technicians or criminalists; laboratory report on measurements of mass and density, microscopy of hairs and fibers, development and comparison of latent fingerprints, calibration of UV spec and GC-MS.

**FOSC 3000 - Investigation/Identification .00 OR 3.00 Credits** Survey of scientific crime detection methods; recognition, collection and preservation of evidence; instrumental and report writing, in- cluding a laboratory report on crime scene processing, search and collection of evidence, comparison of fibers and paint chips, phys- ical matching and tool-mark examinations, presumptive tests for blood and saliva stains, and IBIS (videotape).

*Prerequisites: CRJU 1100, FOSC 2000, FOSC 2100.*

**FOSC 3010 - Criminalistics Lab ...............00 OR 3.00 Credits** Laboratory exercises on methods of identification and compara- tive analysis of physical evidence: glass, soils, bullets, firearms, casts and prints. Field tests for drugs and marijuana; breath alcohol and documents, and laboratory report.

*Prerequisites: FOSC 2000, PHYS 2221K, 2222K, PHYS 1111K, PHYS 1112K, FOSC 2100, CRJU 1100.*

**FOSC 3010L - Criminalistics Laboratory .............3.00 Credits** Laboratory exercises on methods of identification and compar- ative analysis of physical evidence: glass, soils, bullets, firearms, casts and prints. Field tests for drugs and marijuana; breath alcohol and documents, and laboratory report.

*Prerequisites: FOSC 2000, FOSC 2100, PHYS 2221K PHYS 2222K, PHYS 1111K and PHYS 1112K.*

**FOSC 3020 - Forensic Microscopy of Trace.00 OR 3.00 Credits** Light microscopy of trace evidence including, contrast, resolving power and illumination; interference, phase and fluorescence mi- croscopy; microscopy with polarized light, birefringence and crys- tal structure; dispersion staining; photomicrography; fibers, minerals and residues.

**Course**

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*Prerequisites: FOSC 3010L, PHYS 2221K, PHYS 2222K, PHYS*

*1111K, PHYS 1112K*

**FOSC 3030 - Criminal Evidence/Court Proc.......3.00 Credits** Consideration of laws of criminal evidence, rules of search and seizures, chain-of-custody, admissibility, opinion and hearsay, etc., and the mechanics of trials.

*Prerequisite: CRJU 1100, FOSC 2000 and FOSC 2100.*

FOSC 2120-Forensic Photography-------------------------- 3.00 Credits

Designed as an introductory couse in forensic photography. The history of photography will be presented. Technical aspects of exposure, image characteristics, and crime scene and evidence documentation will be introduced and projects will be used to apply these techniques. A final crime scene project with a presentation using photographs generated in the project will be used to show how photographic documentation can be used as an investigative and analysis technique in the reconstruction of a crime scene. Pre-requisites: FOSC 2100

FOSC 2130-Crime Scene Investigation 1----------------------- 3.00 Credits

This course is intended to familiarize students with the basic principles of Crime scene investigations and reconstruction through Crime Scene Unit, Crime Scene Protocol, Crime Scene Evidence Collection and Crime scene interpretations. Pre-requisites: FOSC 2100

FOSC-2140-Crime Scene Investigation 11-------------------------------3.00 Credits

This course will present students opportunities to learn more principles in crime scene investigation including crime scene processing, crime scene Evidence Classification collection methods and crime scene reports. The course will go in debt and much more beyond what is presented in Crime Scene Investigation and Reconstruction 1. Pre-requisites-FOSC 2130.

**FOSC 3100 - Intenational Forensic DsA Typing 3.00 Credits** This course consists of lectures that review in some detail the his- tory, scientific principles, forensic applications and practice of DNA

typing and databases in different countries. This course will teach

students about different DNA typing technologies and databases and their international usage and variations. DNA typing provides information on genetic variations in all forms of life at the molecu- lar level which can be used in forensics, clinical diagnostics and evo- lutionary biology among many fields. The course will also examine the roles and activities of international, regional and national or- ganizations in the promotion and exchange of DNA database tech- nologies and information.

**FOSC 3200 - Bioterrorism & Biotechnology .......3.00 Credits** This course was designed to help internalize the ASU Forensic Sci- ence program curriculum. The course is concerned with the scien- tific issues and nature of current and future threats posed by Bioterrorism and the connections between Biotechnology and Bio defense. The scientific theme and scope are international and in- volve showing how different countries, multinational companies and transnational organizations are active in the fields of Biotechnology and impacted by issues relating to Biotechnology and Bioterrorism.

**FOSC 3420 - Research Statistics ...........................3.00 Credits** This is a survey of descriptive and inferential statistics used in Criminal Justice research. Applications of parametric and non- parametric methods of hypothesis testing constitute the emphasis of the course. Measures of central tendency and dispersion are related to inferences to population parameters. Pearson's Product Mo- ment correlation, regression, analysis of variance and other tests of sample means are reviewed.

*Prerequisites: CRJU 1100, CRJU 2400 and CRJU 3410.*

**FOSC 4040 - Forensic Serology/DsA Tech I.00 OR 3.00 Credits** Practices of search, collection, preservation and identification of blood and body fluids as wet or dry stains; immunologic typing of blood; DNA-typing and electrophoresis, and laboratory report. *Prerequisites: FOSC 3010L, FOSC 3020, BIOL 2111K, 2211K and*

*2311K.*

**FOSC 4050 - Forensic Chemistry ..............00 OR 3.00 Credits** Theory and practice of quantitative chemical analysis, chemical spectroscopy and instrumental methods of analysis: uv, visible and infrared (IR) spectrophotometry, Fourier transform IR, fluores- cence and fluorometry, atomic absorption and emission, Raman, NMR, mass-spec., etc., for structures and molecular stereochem- istry; chromatographic methods of separation-TLC, HPLC and GC. Laboratory report.

*Prerequisite: FOSC 3010L. CHEM 2302K, CHEM 2351K, and*

*CHEM 3250*

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**FOSC 4060 - SEM-EDAX of**

**Trace Evidence .............................................00 OR 3.00 Credits** Practice of scanning electron microscopy with energy-dispersive X- rays for physical and elemental characterization of trace evidence, in- cluding gunshot residue particles, image processing and automation. Laboratory report.

*Prerequisite: FOSC 3020L; PHYS 2100, 2221K, 2222K.*

**FOSC 4070 - Advanced Laboratory-EDAX.00 OR 3.00 Credits** *Prerequisite(s): FOSC 2100 US C and FOSC 3010L US C and ( FOSC 4050 US C or FOSC 4060 US C )*

**FOSC 4070L - Advance Lab/FOSC**

**Instrument Analysis & Assess .....................00 OR 3.00 Credits** Experiments of electronics and physics in the analysis of error and quality control of Forensic data and instrumentation, using computer and/or calculus. Included are integrated circuits, digital and logic circuits, and memory and storage devices, etc. Lab report.

*Prerequisite: FOSC 2100, 3010L-4060.*

**FOSC 4080 - Forensic Serology/**

**DsA Tech II ..................................................00 OR 3.00 Credits** Laboratory practice of confirmatory tests for traces of bloodstains and semen stains; electrophoresis of blood enzymes and blood grouping,advanced DNA-typing, etc., and Lab report. Prerequisite: FOSC 4040.

**FOSC 4090 - Controlled Substance/ Toxicology .....................................................00 OR 3.00 Credits** Theory and practice of controlled substance identification GC-MS, HPLC, TLC, and infrared spectroscopy (IR/FTIR), etc., and detec- tion of alcohol toxication by breath testing. Laboratory report. *Prerequisite: CHEM 3250K; FOSC 4050K.*

**FOSC 4100L - Forensic Photography ....................2.00 Credits** Laboratory practice of photographic, lighting and shadowing methods used in crime scene investigation, evidence photography and video- taping, etc. Laboratory report.

*Prerequisite: FOSC 2100.*

**FOSC 4110 - Basic Scanning**

**Electron Micro .............................................00 OR 2.00 Credits**

An introduction to instrumentation, design and modes of operation of the scanning electron microscope, including image processing, image analysis, specimen preparation and mounting, photography and applications. Laboratory report.

*Prerequisite: PHYS 2211, 2212, 2100.*

**FOSC 4120 - Electron Optics,**

**EM/Quant Anal ............................................00 OR 3.00 Credits**

An introduction to electron microscopy, optical designs of SEM, TEM, HVEM and STEM, and to microanalysis with wave- length dispersive, energy-dispersive and X-ray fluorescence spec- trometers. SEM-EDX practice and laboratory report.

*Prerequisite: FOSC 4060, 4110.*

**FOSC 4130 - Expert Witness at Mock Trial ........2.00 Credits** Consideration of place of expert's in dispute resolution, cases that require expert testimony, pre-trail preparations, rules of evidence, articles and exhibits, courtroom demeanor, participation at criminal mock trails and offer expert testimony.

*Prerequisite: FOSC 3030.*

**FOSC 4140 - Fingerprint Technology .......00 OR 2.00 Credits** Practice of fingerprinting: identification and development of latent fingerprints, enhancement by laser, automated identification sys- tem, image processing and the expert fingerprint witness. *Prerequisite: FOSC 2100.*

**FOSC 4150 - Evident Procedure/Medical Tech/sur/Para ..............................................00 OR 2.00 Credits** Practice in evidence protection and collection: biological and med- ical evidence and controls to be collected, injuries to be photographed, legal and scientific requirements of packaging and storage, writing medical report and assisting the coroner, rules of evidence and expert witness. Laboratory report.

**FOSC 4160 - Evidence Collect/**

**Science Crime ...............................................00 OR 2.00 Credits**

A course for the first officer at the crime scene, investigators and specialized personnel in processing the crime scene and collection of evidence for a systematic investigation consistent with standards for law enforcement agencies and rules of evidence. Laboratory prac- tice and report.

**FOSC 4170 - Ballistics of Firearms/Toolmar.00 OR 3.00 Credits** Theory and practice of the physics of interior, exterior, and terminal ballistics as applied to identification of fire arms, bullets and casing, primer and powder, gunshot residue formation and deposition, pel- let distribution, muzzle-to- target distance and bullet wounds. Lab re- port.

*Prerequisite: FOSC 2100, 3010L, 3020.*

**FOSC 4201L - Evidence Analysis/Research I .......3.00 Credits**

On-campus research and evidence examination or Internship I, to generate crime laboratory proficiency and competence in defending to witness in the presence of judges in a moot court.

*Prerequisite: FOSC 2100, 3010L, FOSC 3020, FOSC 3030, FOSC*

*4060 and FOSC 4070L; all or with the instructor's permission.*

**FOSC 4999 - Senior Capstone Seminar................3.00 Credits** This course is designed to expose students to the most advanced information available in the field of Criminal Justice and Forensic Science Students will also be taught how to utilize this informa- tion during their coming professional careers. New technology in the field of Criminal Justice and Forensic Science will be taught to stu- dents. Students will learn how to use this technology and become proficient in its utilization. Further students will be taught where in- formation relating to Criminal Justice and Forensic Science is located and how to access this information. Finally the ability to synthe- size large amounts of information into a coherent report of a sub- ject area will be instilled in students. Graduating seniors only.

**French**

**FREN 1001 - Elementary French I .......................3.00 Credits** Fundamental skills with emphasis on oral aspects of language learning and intensive and extensive use of structural patterns, dialog, oral drills and exercises. Language Laboratory required.

**FREN 1002 - Elementary French II......................3.00 Credits** Fundamental skills with emphasis on oral aspects of language learning and intensive and extensive use of structural patterns, dialog, oral drills and exercises. Language Laboratory required.

**FREN 1136 - Applied French.................................3.00 Credits** Applied French is a career-oriented course designed to develop bilingual/bicultural competence needed by students in the fields of business, law, medicine, education and other related areas. Audio-lingual exercises, role play, lab assignments and conversations with French informants.

**FREN 1137 - Applied French.................................3.00 Credits** Applied French is a career-oriented course designed to develop bilingual/bicultural competence needed by students in the fields of business, law, medicine, education and other related areas. Audio-lingual exercises, role play, lab assignments and conversations with French informants.

nication while developing a degree of skill in reading and writing. Aspects of French Life and culture are presented through use of selected reading materials, real discussions.

*Prerequisite: FRE, 1002 or equivalent.*

**FREN 2002 - Intermediate French II ...................3.00 Credits** The student is guided in achieving some proficiency in oral communication while developing a degree of skill in reading and writing. Aspects of French life and culture presented through use of selected reading materials, real discussions.

*Prerequisite: FRE, 1002 or FRE, 1102.*

**FREN 2204 - French Phonetics .............................3.00 Credits**

An analysis of the French sound system and fundamentals of French pronunciation, with attention to syllabication, intonation, articulation, and individual difficulties. A minimum of two hours of language laboratory per week.

**FREN 2205 - Introduction to French Lit..............3.00 Credits** Introduction to French Literature is designed to introduce and ex- amine the essential works in the literature of France from the Middle Ages to the latter part of the nineteenth century, the major literary movements in French literature, and the elements involved in literary and critical analysis.

**FREN 3308 - Elementary French Conversation ..3.00 Credits** Development of the student's vocabulary and fluency in oral expression. Designed to provide systematic practice in understanding and speaking grammatically sustained speech in the French language on topics taken from the text, the student's daily activities and from cross-cultural issues.

**FREN 3309 - Advanced French Grammar ..........3.00 Credits** Designed to address advanced problems in grammar and syntax, written exercises, free compositions, and translations.

**FREN 3310 - Advanced French Comp/Conv .......3.00 Credits** Techniques in composition and literary analysis, using prose master- pieces in French.

*Prerequisite(s): FRE, 330.*

**FREN 3311 - Intro Afro-French Lit & Culture ...3.00 Credits** Study of the main contributions of Afro-French literature and culture through understanding works of drama, poetry, and prose of French-speaking Black authors.

*Prerequisite: FRE, 1102 or reading knowledge of French.*

**FREN 3312 - French Civilization ..........................3.00 Credits** Study of the main contributions of the French from the view point of sociological, educational, political and cultural contributions to western civilization.

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*Prerequisite: FRE, 2202 or consent of instructor.*

**FREN 3314 - 17th Century French Drama ..........3.00 Credits**

A study of the representative plays of Corneille, Racine and

Moliere.

*Prerequisite: FRE, 2202 or consent of instructor.*

**FREN 4401 - French Literature ............................3.00 Credits** Development of poetry, prose and drama, 17th century philosophical and religious prose and Fables of LaFontaine.

*Prerequisite: FRE, 3312 or consent of instructor.*

**FREN 2001 - Intermediate French I .....................3.00 Credits**

The student is guided in achieving some proficiency in oral comma

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**FREN 4404 - 18th Century French Literature ....3.00 Credits** Philosophical ideas and literary conventions in the works of Montesquieu, Voltaire, Diderot and Rousseau and the theater of Lesage, Marivaux and Beaumarchais.

*Prerequisite: FRE, 3312 or consent of instructor.*

**FREN 4405 - 19th Century French Literature ....3.00 Credits** Romanticism, Realism and Naturalism in the novel from Constant to Zola, the theater of Hugo and Musset and Romantic and symbolist poetry.

*Prerequisite: FRE, 4401 and 4404 or consent of instructor.*

**FREN 4406 - 20th Century French Literature ....3.00 Credits** Study of the representative plays of Corneille, Racine and Moliere. *Prerequisite: FRE, 2202 or consent of instructor.*

**FREN 4407 - The French Novel ............................3.00 Credits**

A study of the origin and development of the novel in France with attention given to significant novels from its beginning to the present time.

**FREN 4409 - French Seminar I .............................1.00 Credits**

A major project course in which French majors research, develop and present their senior paper. Required of all graduating seniors.

**FREN 4410 - French Seminar II ...........................1.00 Credits**

A capstone course designed to assist students in synthesizing their knowledge and reinforcing the skills they have acquired in the French major and culminating with a senior comprehensive. Required of all graduating seniors.

**FREN 4495 - Study Abroad ...................................3.00 Credits** Study of language and culture in a native (French speaking) envi- ronment for students involved in a Study Abroad Program

**FREN 4496 - Study Abroad ...................................3.00 Credits** Study of language and culture in a native (French speaking) envi- ronment. For students involved in a Study Abroad Program

**Geography**

**GEOG 1101 - Intro to Human Geography ...........3.00 Credits**

An introductory survey of human geography with special attention to patterns of economic activities, natural resources and population problems.

**GEOG 2101 - Principles of Geography ................3.00 Credits** Surveys principles basic to the proper understanding of the world, with emphasis on universe relationships, earth as man's home, latitude and longitude, map making and interpretation, land, animals, population relationships and the conservation of natural resources.

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**GEOG 3101 - Principles of Geography ................3.00 Credits** Surveys principles basic to the proper understanding of the world, with emphasis on universe relationships, earth as man's home, latitude and longitude, map making and interpretation, land, animals, population relationships and the conservation of natural resources.

**German**

**1002 - Elementary German II ...............................3.00 Credits**

**2200 - Scientific German........................................3.00 Credits** Designed for students in the sciences who need a functional knowledge of the scientific phase of the language. Prerequisite: GRMN

1122. By request.

**Health Education**

**HEDP 1001 - Introduction to Wellness .................2.00 Credits** Recognize and solve problems in personal health. Its major purpose is to present the philosophy, objectives and methods of personal health, highlight personal health problems and enhance the student's physical, mental and social well-being.

**HEDP 2250 - Introduction to Drug Education ....2.00 Credits** Designed to study the "why" aspects of drug use. Emphasis is placed on developing positive attitudes that will help the student to make consistent decisions about drug-related issues. Suitable alter- natives to individual drug abuse problems will be presented.

**HEDP 2267 - First Aid & Safety Education .........2.00 Credits** General safety education in the instructional program, causes of accidents and remedial action. Emphasis is placed on the preventive aspect of safety education, and first aid education. Leads to Certification. Includes CPR.

**HEDP 2450 - Basic Athletic Training....................4.00 Credits** Course explains athletic injuries/illnesses and rehabilitation protocols. Injury evaluations are also discussed with an emphasis on the major joints of the body.

*Prerequisite: HEDP 2267*

**HEDP 2452 - Advanced Athletic Training.00 OR 4.00 Credits** Course explores advanced skills in athletic injuries in the axial region. Advanced skills in dealing with unconscious athletics are discussed. Therapeutic modalities and their use in the training room is examined with an emphasis on electrical stimulation. Cryotherapy and hydrotherapy.

*Prerequisite: HEDP 2450*

**HEDP 4490 - Current/Contemporary**

**Issues in Health ........................................................3.00 Credits** This course is designed to assist students in defining current and contemporary health issues. Topics such as sexuality, nutrition, weight control, infectious and non-infectious conditions, cancer, cardiovascular disease, aging, and death and dying will be highlighted in this course.

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**History**

**HIST 1002 - Intro to African Diaspora.................2.00 Credits**

A study of the peoples and cultures of African descent throughout the African Diaspora, especially in Africa, the Caribbean, South America and the United States. Emphasis on the political, social and cultural institutions that have contributed to the development of African Diaspora peoples and cultures.

**HIST 1111 - Survey of World History I ................3.00 Credits**

A survey of World History to early modern times.

**HIST 1112 - Survey of World History II...............3.00 Credits**

A survey of World History from early modern times to the present.

**HIST 2111 - Survey of American History I ..........3.00 Credits**

A survey of American History to the post-Civil War period.

**HIST 2112 - Survey of American History II ........3.00 Credits**

A survey of American History from the post-Civil War period to the present.

**HIST 2113 - Minorities in America .......................3.00 Credits**

A survey of selected minority groups and their contributions in the development of the United States.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 2115 - African-American History ...............3.00 Credits**

A survey of African-American history beginning with the African background and moving through the 20th century to the present. *Prerequisite: HIST 1111 or permission of instructor.*

**HIST 2116 - American Military History...............3.00 Credits**

A survey of American Military History from the Revolutionary War to the present.

**HIST 2117 - Intro to Public History......................3.00 Credits**

A lecture and practical experience course for the history major or other student who wishes to learn about the field of public history. The course will be conducted in the classroom, with a component of Web-based study, and in area museums and related public history sites. Major topics of study will include archives and archival procedures, museums and museum operations, historic preservation, National Register criteria, historic interpretation, oral history, and local and family history. This course will give students the opportunity to explore a field of history beyond the traditional realms teaching and publishing. As the area of public history is currently expanding, it may provide career opportunities for students who have an interest in history but who do not wish to follow the traditional paths of teaching in secondary schools or institutions of higher learning.

**HIST 3205 - History of Islam ................................3.00 Credits**

Must be enrolled in one of the following Class(s): junior, senior.

An evaluation of the emergence of Islam as a religious force in the seventh century. A review of the social, economic and political histories of the lands stretching from India to Spain which converted to Islam between the eighth and twentieth centuries.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3206 - Slavery in Ancient & Modern Worlds3.00 Credits** A study of slavery-the practices, the process, and the slave trade- from the time of Neolithic man through the current epidemics of slavery in Africa and Asia. A narrative approach will trace the practice through cultures -- Mesopotamian, Egyptian, Chinese, Indian,

Persian, Roman, Viking, Native American, Arabic, African, etc. -- and make reference to the part slavery played in the economic development of the world's cultures and societies. Particular attention will be paid to the survival of slavery in the post-emancipation era of the 1800s and its dramatic resurgence in the 20th and 21st centuries. This course will give students the opportunity to place the American slave and emancipation experience in the broader context of slavery throughout the world, and alert them to the continued existence and growth of the practice in regions of the modern world.

**HIST 3301 - Historical Methods I .........................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior Introduction to the nature, methods and tools of historical research and documentation. Required of all history majors.

**HIST 3302 - Historical Methods II .......................3.00 Credits** Problems of oral history, documenting, photograph assessment and primary evidence research Required of all history majors. *Prerequisite(s): ( HIST 3301 or HIS 308 )*

**HIST 3403 - History of Georgia ............................3.00 Credits**

A survey of the political, social and economic history of Georgia from colonial times to the present.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3404 - Diplomatic History of the U.S..........3.00 Credits** A survey of the development of American foreign policy and diplomatic crises involving the United States and foreign nations from the birth of the Republic down to the 20th Century.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3405 - Civil War & Reconstruction ............3.00 Credits**

An analysis of the origins of the Civil War, the War itself and the

Reconstruction Period.

*Prerequisite: HIST 1111 or permission of Instructor.*

**HIST 3406 - Dir Reading in European History ...3.00 Credits**

A readings course for the history major or for any other student who wishes to improve his/her historical knowledge in any era of European history. The course can be conducted as a seminar class or biweekly appointments between the professor and the student. The course will be supervised by the ASU professor who normally teaches courses in European history. This course is designed to improve the student's thinking and writing skills by having him/her actually "read" history. For history and pre-law majors, it will be an essential background for the self-direction and first-rate reading comprehension needed in both graduate school and law school. *Prerequisite: HIST 1111 or permission of Instructor.*

**HIST 3408 - Dir Reading in**

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**son-Western History...............................................3.00 Credits**

A readings course for the history major or for any other students who wishes to improve his/her historical knowledge in any era of non-Western (most especially African, Latin American, and East Asian) history. The course can be conducted as a seminar class or by weekly appointments between the professor and the student. The course will be supervised by the ASU professor who normally teaches courses in non-Western history. This course is designed to improve the student's thinking and writing skills by having him/her actually "read" history. For history and pre-law majors, it will be an essential background for the self-direction and first rate reading comprehension needed in both graduate school and law school. *Prerequisite: HIST 1111 or permission of Instructor.*

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**HIST 3510 - Classical History ...............................3.00 Credits** A social, and political history of Greece and Rome. This course will focus on the birth of western civilization, democracy, philosophy,

history, and drama in Greece and will also deal with the emergence

of international law, political institutions, and science within the roman republic and empire. This course will also focus on the birth of Christianity in the Roman empire and the transmutation of western civilization in the states of barbarian Europe of the fifth century. This course will complete a set of three courses (the other two being HIST

3518 and HIST 3519), which treat the development of western Europe from ancient time through the fall of Rome. All of these courses will apply to the Europe concentration. This course will perfect the student's skill as an investigator and historian by forcing he/she to choose a certain topic in Greek or Roman history and thoroughly research them both.

papers and examinations.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3511 - Modern Europe I...............................3.00 Credits**

A study of the most important political, social, economic, intellectual and cultural phases of European life from 1789-1870. *Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3512 - Modern Europe II .............................3.00 Credits**

A study of European History from 1870 to the contemporary period

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3514 - English History I ...............................3.00 Credits** Traces the development of England from ancient times through the Stuart dynasty.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3515 - English History II .............................3.00 Credits** A study of England from the Stuart dynasty to the present. *Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3516 - Social and Intellectual History**

**of Modern Europe ...................................................3.00 Credits** A survey of the intellectual tradition of Modern Europe from the Scientific Revolution of the seventeenth and eighteenth century to the emergence of post-modernism in the twenty-first century. *Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3518 - The European Middle Ages..............3.00 Credits** A survey of Europe from the fall of the western Roman empire to the fall of the Byzantine empire in the fifteenth century. This course focuses on the religious, political, cultural and economic development of Western Europe.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3519 - The Age of Renaissance, Reformation**

**& Reconnaissance ....................................................3.00 Credits** The history of Europe from 1453 to 1648 with emphasis on the religious, political, cultural, and intellectual developments which underpinned the changes in early modern European life.

*Prerequisite: HIST 1111 or permission of instructor.*

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**HIST 3630 - Spanish History .................................3.00 Credits**

A social, economic, and political history of the peoples of the Iberian Peninsula which will focus on the emergence of celtiberian civilization, Roman, Visgothic, Muslim, and Christian Spain. This course will thoroughly discuss the era of the Siglo de Oro (sixteenth

century), that of the "decline of Spain" (seventeenth and eighteenth centuries), the birth of modern Spain (nineteenth century), and the destruction and rebirth of the modern Spanish state (twentieth century). This course will complete a set of two courses (the other one being HIST 3631) which treat the development of the Spanish state and it American empire and will serve as the history components of the Latin American certificate.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3631 - History of Latin America .................3.00 Credits**

A study of the exploration and colonization of Latin America, the record of the struggle for independence, and the establishment and growth of the independent states in this section of the Western Hemi- sphere.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 3632 - History of Russia...............................3.00 Credits** A survey of Russia from the Kievan and Muscovite periods through the Soviet era, the 19th Century revolutionary movement, the Revolutions of 1905 and 1917, and the establishment and the development of Soviet Russia under Lenin and Stalin.

*Prerequisite: HIST 1111 or permission of Instructor.*

**HIST 3633 - The Revolution/Modern History .....3.00 Credits** Examines the origins, spread, and consequences of the revolutionary experience in select countries during modern times. *Prerequisite: HIST 1111 or permission of instructor.*

**HIST 4301 - Senior Seminar I ...............................3.00 Credits** Culminating experience in the History Program. Students engage in individual research or an original endeavor on a problem or a project of special interest. Qualified history majors shall enroll for two consecutive semesters during which time they shall develop and defend a research paper. Required of all history majors. *Prerequisites: HIST 3301 and HIST 3302.*

**HIST 4302 - Senior Seminar II..............................3.00 Credits** Culminating experience in the History Program. Students engage in individual research or an original endeavor on a problem or a project of special interest. Qualified history majors shall enroll for two consecutive semesters during which time they shall develop and de- fend a research paper. Required of all history majors. *Prerequisite: HIST 4301.*

**HIST 4402 - Dir Reading in American History 3.00 Credits**

A readings course for the history major or for any other student who wishes to improve his/her historical knowledge in any era of American history. The course can be conducted as a seminar class or bi- weekly appointments between the professor and the student. The course will be supervised by the ASU professor who normally teaches courses in American history. This course is designed to improve the student's thinking and writing skills by having him/her actually "read" history. For history and pre-law majors, it will be an essential background for the self- direction and first-rate reading comprehension needed in both graduate school and law school. *Must be enrolled as a junior or senior.*

**HIST 4403 - The Afro-Americans**

**in America Thought.................................................3.00 Credits** A survey of the Afro-American's impact upon the intellectual history of the United States.

*Prerequisite: HIST 1111 or permission of instructor.*

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**HIST 4404 - The History of the South ..................3.00 Credits** Institutional approach to the political, economic and social development of the region, and a critical analysis of conditions, problems

and trends of the South, with some attention on History of Georgia.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 4405 - Contemporary Amer,**

**1945-Present .............................................................3.00 Credits**

A study of major forces-political, social and economic that have molded contemporary America.

*Prerequisite: HIST 1111 or permission of instructor. Must be enrolled as a junior or senior.*

**HIST 4406 - The Civil Rights Era .........................3.00 Credits**

A senior level course in the development and progress of the civil rights struggle in the era after World War II.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 4611 - Studies in African History ................3.00 Credits**

An interdisciplinary survey of African civilization, with emphasis on modern Africa.

*Prerequisite: HIST 1111 or permission of instructor. Must be enrolled as a junior or senior.*

**HIST 4612 - Studies in African Diaspora .............3.00 Credits**

A survey of the origin of African cultural, economic, and political institutions. Examines the origin and operation of the Atlantic Slave Trade, as well as compares and analyzes chattel slavery in various New World societies.

*Prerequisite: HIST 1111 or permission of instructor. Must be enrolled as a junior or senior.*

**HIST 4613 - East Asian History ............................3.00 Credits** Study primarily of China and Japan from ancient times to the present. *Prerequisite: HIST 1111 or permission of instructor. Must be enrolled as a junior or senior.*

**HIST 4614 - Race/Politics in U.S.**

**& The Caribbean .....................................................3.00 Credits** This course is a comparative study of the economic, social, political, cultural, and artistic experiences of people of African descent, in the United States and the Caribbean as they fought to acquire civil rights and political independence from the oppressive political systems in which they lived from the 1900 to the 1970s. Emphasis will be placed on the politics of emancipation, and the establishment of civil rights organizations in the U.S., slavery and emancipation in the Caribbean, and the birth of Caribbean independence movements. Attention will also be given to Pan-African linkage between Africa, the Caribbean, and the United States.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 4814 - Women/Politics Cross Culturally ....3.00 Credits**

A survey of women and politics globally from a cross-cultural perspective the course offers a comparative, historical overview of the field of women and politics.

*Prerequisite: HIST 1111 or permission of instructor.*

**HIST 4815 - Intro to Global Terrorism ................3.00 Credits** This course traces the historical development and evolution of terrorism globally through time, with emphasis on the present. This course pertinent at this time, especially since 9/11, because terrorism is fast becoming a part of our everyday lives.

*Prerequisite: HIST 1111 or permission of instructor.*

**Honors**

**HONR 1201 – Foundations of College Success ..............................................2.00 Credits** This course focuses on leadership development and professional role acquisition through voluntary services. It will facilitate the transition from high school to college and will focus on research techniques. Students will engage in voluntary service activities such as mentoring, tutoring and work place experiences. Students will be required to complete a case study and provide an in-depth overview and/or work- able solutions.

**HONR 1102 - Honors Seminar II ..........................1.00 Credits**

This seminar will emphasize developments in logical theory.

**HONR 1111 - Honors Humanities I ......................3.00 Credits** This Honors course in Freshman English focuses on literary types, critical and interpretive writing and research. Students will be exposed to concentrated and individualized work in writing with emphasis on thematic or aesthetic approaches.

*Prerequisite: Admission to the Honors Program. (Students may be eligible to take the Regents' Test upon successful completion of course.)*

**HONR 1112 - Honors Humanities II.....................3.00 Credits** This course emphasizes the study of literary types, critical and interpretive writing and research. It focuses on continued development of writing of argumentative, comparative and analytical essays. The concepts of literature's place in the humanities in relationship to other art forms will be explored.

*Prerequisite: Admission to Honors Program and completion of*

*HONR 1111.*

**HONR 1115 - Honors Fund Con/Principles**

**Life Science ...................................................00 OR 3.00 Credits**

An introduction to the study of the animal and plant kingdoms with emphasis on the morphological, physiological, and taxonomic relationships in these groups. Some attention is given to heredity, ecological and evolutionary concepts.

*Prerequisite: Admission to Honors Program.*

**HONR 1116 - Honors-Con/Prin-**

**Phys Science .................................................00 OR 3.00 Credits**

An introduction to the study of the fundamental principles of chem- istry and physics, including such topics as atomic and molecular structure, chemical bonding, equation of state, nuclear chemistry, forces and motion, heat, light, sound, electricity, magnetism and nu- clear physics. For non- science in Honors Program.

*Prerequisite: Admission to Honors Program.*

**HONR 1151 - Honors World History I .................3.00 Credits**

A survey of the development and diffusion of civilization from the origin of humanity/humankind in Africa and ancient times to the end of the sixteenth century. This course is offered with a view of creating an understanding and appreciation for the economic, social, cultural and political foundation of western civilization in the an- cient, medieval and early modern periods.

**Course**

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*Prerequisite: Admission to the Honors Program.*

**HONR 1152 - Honors World History II ...............3.00 Credits** This course continues HONR 1151 and examines events from the early modern period to the present time.

*Prerequisite: Admission to the Honors Program and completion of*

*HONR 1151.*

**HONR 1161 - Honors American Government .....3.00 Credits**

An introductory course covering the essentials of national govern- ment in the United States. This course gives some attention to the State of Georgia and satisfies the state law requiring an examination of United States history and Constitution.

*Prerequisite: Admission to Honors Program.*

**HONR 1171 - Honors Man in Society...................3.00 Credits**

An introduction to the concepts, assumptions, principles and meth- ods used to study human beings as social organisms. This course will also include the study of the basic principles and methods of psy- chology as a social and behavioral science and the study of major economic problems and policy alternatives available to their solu- tion.

*Prerequisite: Admission to Honors Program.*

**HONR 2101 - Honors Seminar III ........................1.00 Credits** This seminar will emphasize the major theories and styles of leadership.

*Preadmission to Honors Program.*

**HONR 2102 - Honors Seminar IV ........................1.00 Credits**

An expanded focus on literature, art and music, and forms of pop- ular culture that provide ethical and philosophical expressions of hu- manistic issues treated in HONR 2112.

*Pre-admission to Honors Program.*

**HONR 2103 - Honors Seminar V ..........................1.00 Credits** This seminar will focus on the media, its utilization and influence in society.

*Pre-admission to Honors Program.*

**HONR 2111 - Honors Humanities III.....................3.00 Credits** This course is a critical and analytical study of humanity's/humankind's world achievements (literature, art and music) in the Western World from the Renaissance to the present.

*Prerequisites: Admission to the Honors Program and completion of*

*HONR 1112.*

**HONR 2112 - Honors Humanities IV ...................3.00 Credits**

A study of contemporary literature, art and music with emphasis on both Western and non-Western cultures.

*Prerequisites: Admission to the Honors Program and completion of*

*HONR 2111.*

**HONR 2151 - Honors Dir. Independent Study ....3.00 Credits** This course covers special topics of interest to students under the direction of a faculty specialist in the field. Approval of faculty member, department chair, and Honors Program Co-Director required. A student may enroll for no more than nine (9) hours of course work through Honors Directed Independent Study. *Prerequisite: Completion of nine (9) credit hours of Honors Program courses.*

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**HONR 2152 - Honors Contracting .......................3.00 Credits** This course provides an opportunity for students to pursue areas of special relevance to career goals and research interest. Course credit will be determined by supervising faculty, department chair, and Honors Program Co-Director. A student may earn no more than 6 hours of contracted credits.

*Prerequisite: Completion of 9 credit hours of Honors courses.*

**HONR 3101 - Honors Seminar VI ........................1.00 Credits**

This seminar will focus on career exploration.

*Pre-admission to Honors Program.*

**HONR 3102 - Honors Seminar VII .......................1.00 Credits** The focus will be on varieties of research. Project topics and pro- posals for Bachelor's Essay should be completed and approved by the end of this seminar.

*Pre-admission to Honors Program.*

**HONR 4101 - Honors Seminar VII .......................1.00 Credits** Students will work on Bachelor's Essays. Topics will vary according to student interest.

*Pre-admission to Honors Program.*

**HONR 4102 - Honors Seminar IX ........................1.00 Credits** Students will complete and present Bachelor's Essays begun in HONR 4101 and receive guidance in the development of per- sonal statements.

*Pre-admission to Honors Program.*

**Interdisciplinary Natural Sciences**

**ISCI 2001 - Life/Earth Science ..............................3.00 Credits** Activity-based Life/Earth Science for Early Childhood Education majors. Course addresses content covered by Georgia Performance Standards (GPS) for K-5 grades.

*Prerequisite: Teacher Education major status.*

**ISCI 2002 - Physical Science..................................3.00 Credits** Activity-based Physical Science for Early Childhood Education majors. Course addresses content covered by Georgia Performance Standards (GPS) for K-5 grades.

*Prerequisite: Teacher Education major status.*

**Journalism**

**JOUL 2216 - sews Writing and Reporting ....................3(3-0)** Instruction in the basic methods and practices of news gathering, evaluation, writing and development of sources as required in printed media. Attention is given to interviewing, reports, speeches, follow- ups and rewrites, human interest and specialized news and editorials.

**JOUL 2230 - Journalism Workshop ................................1(1-2)** Practical experience in journalism is offered. Students will work under instructional supervision on the University newspaper and yearbook. Only one hour’s credit per semester may be earned, with the maxi- mum credit allowed for the course being five semester hours.

**JOUL 2260 - Basic Photojournalism ................................2(2-0)** Introduction to the modern theories and practices of photography. Basic camera techniques, lighting techniques, characteristics of photographic film and paper, film processing, printing, enlarging and

photo finishing, selection, display and evaluation of photographs.

**JOUL 2318 - Survey of Mass Communication ...............2 (2-0)** Survey of the field of mass communications emphasizing aspects of the development of the dissemination of information and the role of mass media in society; legal, economic and social impacts of media are considered.

**JOUL 3215 - Advanced sews Writing and Reporting...2 (2-0)** Students are required to attend and write stories on court trials, city, county and state government proceedings, business and civic organization meetings and political and community activities.

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**JOUL 3265 - Television and Radio Production ..............3 (3-0)** Research preparation and presentation of news and editorial materials for television and radio, including practice in writing, reporting,

filming and editing of news for broadcast.

**JOUL 3310 - sews Editing and Makeup ........................3 (3-0)** Study of the principles and practices of news selection and evaluation, copy editing, copy reading, headline writing, makeup and topography, editing problems, and wire and syndicated news materials.

**JOUL 4212 - Feature and Magazine Writing .................2 (2-0)** Advanced writing involving feature articles for newspapers and magazines. Analysis of the market for feature materials, including writing and selling, research, investigation and interview techniques.

**Management**

**MGMT 3105 - Legal Environment of Business ....3.00 Credits** This course provides an overview of the statutory, case and regulatory laws that impact the relationship between law and business. The course provides insight into the elements that are critical to analyzing and understanding the relationship between law and business.

**MGMT 3106 - Management Science &**

**Operation Management ..........................................3.00 Credits** This course covers the principles, concepts, modeling and decision making techniques for business operations management. The typical topics include issues and tasks of operations management, operations strategy, decision making and optimization, total quality management, capacity planning, facility layout, and materials planning.

*Prerequisite: ECO, 3205.*

**MGMT 3208 - Fundamentals of Web Applications3.00 Credits** This course covers the fundamentals of web applications development by using modern programming and markup languages such as HTMC, XML, ASP, Java Scripts and Visual Basic scripts. This course is designed to bring students up to a basic level of familiarity with web applications development and programming concepts. *Prerequisite: MGMT 3207.*

**MGMT 3405 - International Business Law...........3.00 Credits** This course provides a comprehensive overview of the legal requirements to engage in international business. Special emphasis is given to the legal considerations for conducting business in the developing countries, especially in Africa and the Caribbean. Interactive links to international business law Web Sites will be utilized.

**MGMT 4110 - Organizational Behavior ...............3.00 Credits** This course is designed for students to learn individual and group skills required for effective functioning in an organizational context. Topics include global competition, leadership, motivation, diversity, decision making, group dynamics, culture, organizational development and systems.

*Prerequisite(s): MGMT 3105 US C.*

**MGMT 4111 - Seminar/Organization Theory/Behavior ......................................................3.00 Credits** This is an advanced course in organization design and structure and their impact on individual, group and organization effectiveness. Focus is on the role of authentic leadership in taking action based on

the relationships of mission, power, resources, structure, meaning, existence and fulfillment.

*Prerequisite: MGMT 4110.*

**MGMT 4125 - Human Resource Management ....3.00 Credits** Explores the process of forecasting and identifying resources in the labor market, determining staffing needs, developing budgets and employment plans. Emphasis is on program evaluation and legal considerations, equal employment opportunity, performance appraisal, compensation management, training and development. *Prerequisite: MGMT 3105.*

**MGMT 4126 - Organizational Learning ...............3.00 Credits** This course focuses on the knowledge and skills needed for the complex issues of tomorrow

*Prerequisite: MGMT 4110.*

**MGMT 4127 - Small Business Management.........3.00 Credits** This course is about the issues and opportunities involved in starting, operating/managing a successful small business.

*Prerequisite(s): MGMT 4110 and FI,C: 3105.*

**MGMT 4128 - Contemporary Business Issues .....3.00 Credits**

A discussion of major issues such as environmental pollution, prohibitive labor cost, loss of competitive ability, and shift from manufacturing to service, business ethics, rising costs of Social Security, medical care, etc.

*Prerequisite: Senior standing.*

**MGMT 4199 - Business Policy ...............................3.00 Credits**

A capstone course that integrates knowledge acquired in accounting, economics, finance, operations management, information systems, management and marketing in the formation of business strategies. Case study method is emphasized. Prerequisite: Graduating senior standing.

*May not be enrolled in one of the following class(s): freshman, junior - {or must have completed 100 semester hours}, sophomore*

**MGMT 4205 - Management Information Systems3.00 Credits** An overview course designed to introduce students to the area of in- formation systems. It emphasizes concepts, components and structures of information systems and their applications in business and managerial decision making.

*Prerequisite: BISE 2010.*

**MGMT 4206 - Database Management Systems ...3.00 Credits**

An introductory course to database management and its system implementation techniques. It covers the structure of database management systems, database design, Entity-Relation- ship modeling, normal forms, relational database theory, the structural query language (SQL), and database system development and management using an industrial leading data- base system such as ORACLE . *Prerequisite: BISE 2010.*

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**MGMT 4207 - Systems Analysis and Design ........3.00 Credits** This course covers all the major phases of a complete systems development life cycle (SDLC), business modeling techniques such as Entity-Relationship diagramming, data flow diagramming, and the use of Integrated Computer-Aided Software Engineering (I- CASE) tools to support systems development.

*Prerequisite: MGMT 4206 and BISE 2010.*

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**MGHC 2220 Medical Terminology .......................2.00 Credits**

A systematic study of the language of medicine. Focal areas include the development of medical vocabulary and communication skills through the analysis of word components.

**MGHC 3110 - Introduction to Health Care**

**Organization ............................................................3.00 Credits**

An introductory course which provides a general overview of health care organizations. In addition to traditional models of health care, novel health care delivery systems, such as managed care organizations will be studied.

**MGHC 3120 - Ethic/Legal Issues in Health Care.3.00 Credits** Theories and principles of ethical decision making will provide a framework for the analysis and resolution of complex dilemmas. A historical and current examination of the law as related to the ethical decision making process will be included. Related ethical/legal topics will include: tort of battery, informed consent, negligence, The Patient's Bill of Rights, living wills and advanced directives.

**MGHC 3220 - Research in Health/Biostatistics....3.00 Credits**

An introductory study of the research process using a health related topic. Proposal development will be enhanced by problem and hypothesis formulation; a review of the literature, and the development of a methodological/ biostatistical plan for data analysis.

**MGHC 3310 - Chronic Diseases.............................3.00 Credits** The study of selected chronic diseases- including causation, treatment and prevention. The social and economic impact of the disease process will be highlighted.

**MGHC 3411 - Quality Management in Health**

**Care Organization ...................................................3.00 Credits** Foundations of quality which focus on patient satisfaction provision of quality care will be explored. Emphasis will be placed on the needed for incremental measures of quality care. Additionally, for- mal quality assessment procedures, regulatory agencies and schools of thought on quality management will be reviewed.

**MGHC 3420 - Economic of Health Care...............3.00 Credits**

An examination of the U.S Health care System utilizing national and international health care trends. Basic principles of economics pro- vide a basis for analysis of the health care system throughout its three phases development: The Public Health Movement, The Scientific Movement, and the Era of Restriction of Funding.

*Prerequisites: ECO, 2105 and 2106.*

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**MGHC 4035 - Health Care Marketing..................3.00 Credits** This course will explore the application of marketing theories and concepts to the health care industry. Issues such as patient satisfaction, the role of physicians, pharmaceutical industries and nurses in health care marketing will be addressed. Emphasis will be placed on ethical marketing practices and strategies. Students will

develop working knowledge and appreciation for the glossary of marketing language and terminology.

*Prerequisite: MKTG 3120.*

**MGHC 4210 - Principles of Long Term Care .......3.00 Credits** This course will integrate health and gerontological principles which relate to the delivery of health care for a rapidly growing aging population. Emphasis will be placed on the challenges of the health care system to meet health needs of the aging population.

**MGHC 4211 - Health Care Administration**

**Practicum I ...................................................00 OR 4.00 Credits** The initial application of theoretical classroom knowledge in a com- munity based health care facility. Health facility types include: hospitals, nursing homes, physician practices and various types of clinics and ambulatory care centers.

*Prerequisite: Senior standing.*

**MGHC 4410 - Financial Management ..................3.00 Credits** The incorporation of introductory principles of finance, as capital budgeting, to promote the sound fiscal management health care organization. Acquisition of funds and structural strategies also support the learning process in this course.

*Prerequisite: ACCT 2101 and ACCT 2102 Senior standing.*

**MGHC 4421 - Insurance for**

**Health Care Professionals .......................................3.00 Credits** The student will gain knowledge of various disease classification systems needed to understand and process insurance claims. Various categories of insurance for study include: universal health insurance, private insurance, Medicare and the Tri- Care System. Included also will be electronic and other state-of-the-art billing procedures. *Prerequisites: Senior standing.*

**Marketing**

**MKTG 3120 - Principles of Marketing .................3.00 Credits** A treatment of that phase of economic activity that lies between physical production and ultimate consumption of goods.

*Prerequisite ECO, 2106.*

**MKTG 3130 - Consumer Behavior ........................3.00 Credits** Application of psychological and sociological theories and research findings, to the decision making process and their implications for consumer behavior decisions. the study of consumer purchasing pat- terns and experiential learning exercises.

*Prerequisite: MKTG 3120.*

**MKTG 3134 - Marketing Research .......................3.00 Credits** Research methods and design used in market research and application of research results. Includes hands-on application of research methodology.

*Prerequisites: MKTG 3120.*

**MKTG 3136 - Promotion and Advertising...........3.00 Credits** A theoretical base on advertising and all its forms including print and broadcast. A production course focusing on the creation of numerous types of promotion for broadcast and print media. Promotional samples include writing copy, designing covers, writing lyrics, creating brochures, cards, flyers and non-profit promotions.

*Prerequisite: MKTG 3120.*

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**MKTG 4140 - Retail Management ........................3.00 Credits** Modern concepts, theories, strategies and techniques which are important to success in a retail business. A functional treatment of organizational, operational and supervision of retail institutions. The class focuses on helping students understand the relationship between consumerism and the operation of a retail agency, including on-site and field experiences.

*Prerequisite: MKTG 3120.*

**MKTG 4148 - Sales Management ..........................3.00 Credits** This course covers each aspect of the sales process. Attention is de- voted to such sales activities as prospecting, planning, product demonstrations, responding to objections, obtaining commitment and relationship building. Each student is required to develop sales presentation.

*Prerequisite: MKTG 4140.*

**MKTG 4150 - Professional Development ..............3.00 Credits** This course is designed to prepare students for the work world for entrepreneurial endeavors and for success in corporate America. Areas covered include business ethics, professionalism, dining etiquette and business logistics.

**MKTG 4170 - Marketing Management ................3.00 Credits** May not be enrolled in one of the following Class(s): Freshman, Junior, Sophomore. Management of marketing function, management skills and strategies applicable to management of marketing functions and their interrelationships within the environment of the firm. *Prerequisite: MKTG 3120 and senior standing.*

**Mass Communication**

**MACO 2000 - Basic sews Writing/Reporting .....3.00 Credits**

A lecture and laboratory course which places emphasis on writing various types of news stories for print and broadcast media. *Prerequisites: E,GL 1101, E,GL 1102.*

**MACO 2001 - Survey of Media and Society ........3.00 Credits** A comprehensive examination of the historic foundations and current status of the mass media. Emphasis will be placed on social and economic controls as well as the impact and influence of the mass media in society.

*Prerequisites: E,GL 1101, E,GL 1102.*

**MACO 2203 - Writing for Radio/TV/Film...........3.00 Credits**

A lecture and laboratory course which examines radio, television, and their effects on the writer. Students examine format requirements for various kinds of scripts and demonstrate their understanding by writing for commercials, features, talk shows, documentaries, and other forms.

*Prerequisite: MACO 2000.*

**MACO 3205 - African American Images/Media .3.00 Credits** This course explores the characterization and interpretations of the image of African Americans in film and television and attempts to qualify their valor as a catalyst for social, political and cultural change. The course also assesses the dynamics of basic thought propagated through negative imagery in films and other media. *Prerequisite: MACO 2203*

chological affects of editing techniques and Russian and French cinema. There is special emphasis on African American and Third World films.

*Prerequisites: MACO 2203 - Writing for Radio-Television/Film. 3 semester hours.*

**MACO 3208 - Intro to Radio/TV/Film .................3.00 Credits** Course familiarizes students with organizations, equipment and terminology typically utilized in radio, television, and film. Operational procedures, FCC regulations, and styles of writing will be introduced.

*Prerequisite: MACO 2203.*

**MACO 3210 - Public Opinions and**

**Propaganda ..............................................................3.00 Credits**

An introduction to the nature of public opinion and propaganda from a historical perspective spanning various cultures and societies. Emphasis on the use and abuse of persuasive communication techniques and the various interrelationships determining the role of mass media in human affairs.

*Prerequisite: MACO 2202 or MACO 2203.*

**MACO 3218 - PR Media Devel and Copy Edit ....3.00 Credits** Covers public relations techniques for dissemination of messages to multiple groups across internal and external organizations and the principles of electronic and audiovisual media. Focus on practical skills for editing copy and implementing media strategies. *Prerequisite: MACO 3207.*

**MACO 3228 - Media Advertisements**

**and Sales ...................................................................3.00 Credits** Introductory survey of basic processes, strategies, and techniques for producing, selling and evaluating advertising. Emphasis on consumer and marketing research, media advertising campaigns, marketing plans, media ratings, audience analysis and media buying plans.

*Prerequisite: MACO 2202 or MACO 2001 or MACO 2203.*

**MACO 3301 - sews Editing I................................3.00 Credits**

A practical course that uses simulated news copy and wire service stories to give students training in the theory and practice of copy editing, headline writing, page design and picture sizing and cropping.

*Prerequisite: Credit: 3 semester hours. Prerequisite: MACO 2000.*

**MACO 3302 - sews Editing II ..............................3.00 Credits**

An advanced practical course that uses simulated news copy and wire service stories to give students training in the theory and practice of copy editing, headline writing, page design and picture sizing and cropping.

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*Prerequisite: News Editing I. Credit: 3 semester hours. Prerequisite: MACO 3301.*

**MACO 3303 - Photojournalism ............................3.00 Credits** This course emphasizes the communicative effects of pictures and the proper selection and display of photographs. Students must sup- ply their own 35mm cameras. Prerequisites: Basic News Writing/Reporting; Survey of Media and Society. Credit: 3 semester hours. *Prerequisite: MACO 2000 and MACO 2001.*

**MACO 3206 - History and Criticism of Film ......3.00 Credits** Historical and aesthetic contributions of famous films, film makers and film critics are examined. Particular subjects include the spy

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**MACO 3310 - Mass Communication**

**Research Methods ...................................................3.00 Credits**

An introduction to qualitative and qualitative research methods and procedures used to study issues and problems in mass communication. This course covers sampling, research design, observation and measurement, statistics, data analysis, documentation/reporting formats, and execution strategies/tools.

*Prerequisites: MACO 2000, MACO 2001 and MACO 2000; Per- mission of instructor.*

**MACO 3320 - History of Journalism....................3.00 Credits** A concentrated lecture-discussion course in a historical context. The growth of American journalism is traced, including the contributions of African Americans, Hispanics, Native Americans, and Asians. Students identify major personalities and examine socioeconomic factors affecting journalism in the United States. Prerequisites: Sur- vey of Media and Society; Advanced News Writing/Reporting or Writing For Radio-Television-Film. Credit: 3 semester hours.

*Prerequisite: MACO 2201, MACO 2202 or MACO 2203*

**MACO 3327 - History/Dev of Radio & TV ..........3.00 Credits** Follows the growth and development of radio and television from the earliest technology to the present day. Focus on the social impact of the interplay of programming, social trends, and technology. *Prerequisite: MACO 2203.*

**MACO 3330 - Editorial and Critical Writing ......3.00 Credits**

A lecture-discussion and writing course which concentrates on the writing of editorials, book and film review, and columns. The critical and analytical approaches of selected major national and international newspapers are examined.

*Prerequisites: Survey of Media and Society; Advanced News Writing/Reporting or Writing for Radio-Television-Film, MACO 2001.*

**MACO 3331 - International Journalism ..............3.00 Credits** This course studies the foreign media and provides instruction in the techniques and skills needed to write for foreign or international organizations.

*Prerequisite: MACO 2001, MACO 2202 or MACO 2203.*

**MACO 3334 - Broadcast Journal/Editing............3.00 Credits**

**MACO 3340 - Interpretative Reporting ...............3.00 Credits**

An advanced writing course which focuses on developing the student's analytical and news writing skills for coverage of such governmental bodies as the schools, courts and city, county, and state agencies. Students will be assigned to cover actual news events and be given instruction in how to analyze the causes of news events through interviewing and the persistent searching of records. Students will be required to publish articles in an approved periodical

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*Prerequisite: MACO 2001 and MACO 3301*

**MACO 3348 - Fund of TV Production ..................3.00 Credits MACO 3349 - Fund of Radio Production .............3.00 Credits MACO 3351 - Feature Writing ..............................3.00 Credits**

A lecture and laboratory course which focuses on developing the skills

in researching, organizing, and writing all types of feature stories for newspapers and magazines. Students are required to publish articles in an approved periodical.

*Prerequisite: MACO 2001 and MACO 3301.*

**MACO 3360 - Newspaper Production ..................3.00 Credits** This course offers a thorough understanding of principles and skills involved in producing a newspaper or magazine. It combines theory with production activities. Students will be taught the organization of a newspaper and its functions as well as headline writing, copy editing, and layout and design.

*Prerequisites: MACO 2001 and MACO 3301*

**MACO 4218 - PR Research and Evaluation ........3.00 Credits**

**MACO 4222 - Philosophy and Ethics of**

**Mass Communication..............................................3.00 Credits** This course is based on the philosophical assumptions embodied in mass communications systems around the world. A lecture-discussion method is used.

*Prerequisite: MACO 2202 and MACO 2001*

**MACO 4262 - Media Arts and Design ..................3.00 Credits**

**MACO 4264 - Media Arts Studies ........................3.00 Credits** Special course which allows students to focus on and study current media themes, applications, trend, etc. Course content varies. **Prerequisite: permission of Department Chair.**

**MACO 4385 - Public Relations Campaigns .........3.00 Credits**

**MACO 4412 - Communication Law .....................3.00 Credits** Study of various laws affecting American media. Students examine the concepts of freedom of speech and press, specific laws and alternative interpretations of those laws, federal regulatory agencies rights in news and advertising, libel slander, copyrights and invasion of privacy.

*Prerequisites: MACO 2001, MACO 2202, MACO 2203.*

**MACO 4475 - Radio Program & Production I....3.00 Credits**

**MACO 4476 - Mass Media Arts Co-Operative....3.00 Credits**

Juniors and seniors are allowed to work full-time off- campus (with university supervision) in journalism, public relations, radio, television, or film for credit.

*Prerequisite: Permission of Instructor. Credit: 3 semester hours* **MACO 4477 - Adv TV Prod & Direct I ................3.00 Credits MACO 4478 - Adv TV Prod & Direct II ..............3.00 Credits MACO 4479 - Cinematography I..........................3.00 Credits MACO 4480 - Cinematography II ........................3.00 Credits**

**MACO 4490 - Media Seminar...............................2.00 Credits** Must be enrolled in one of the following Class(s) Senior. This course for graduating seniors provides students an opportunity to apply theories and techniques to practical experiences in their areas of concentration. It is a research seminar. Seniors must successfully complete an approved final project that will be presented both orally and in writing to be judged by a jury of faculty in the department. In consultation with their advisers, students may select a topic for their research during the first semester. Research projects should reflect the career or academic interests of the students.

*Prerequisite: Graduating senior. Credit: 3 semester hours.*

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**MACO 4494E - Directed Study ..............................3.00 Credits**

**MACO 4494J - Directed Study ..............................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. A project designed by the student and a journalism faculty member who agrees to work with the student to meet specific and individual needs. Directed study requires extensive reading and written work from the student. Prerequisites: junior or senior status in major and permission of instructor.

**MACO 4494P - Directed Study ..............................3.00 Credits**

**MACO 4498E - Internship .....................................3.00 Credits**

**MACO 4498J - Internship ......................................3.00 Credits** Part-time placement in professional media facilities in Albany and other cities. Emphasis in on learning overall business structure and developing skills for entry-level decision making positions.

*Prerequisites: Senior status in major and permission of instructor.*

**MACO 4498P - Internship ......................................3.00 Credits**

**Mathematics**

**MATH 1101 - Mathematical Modeling .................3.00 Credits** This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real world phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by appropriate technology and effective communication of quantitative concepts and results.

**MATH 1111 - College Algebra ...............................3.00 Credits** This course includes a study of topics in real numbers, linear and quadratic equations, complex numbers, various types of other functions and their graphs, exponential and logarithmic functions, systems of linear equations and inequalities.

*Prerequisite: Developmental MATH 0099 or Placement Test.*

**MATH 1113 - Precalculus with Trig......................3.00 Credits** This course is the study of functions and their graphs. Topics include trigonometric functions, exponential and logarithmic functions, transcendental functions and polar coordinates.

*Prerequisite: MATH 1111 or Placement Test.*

**MATH 1201 - Survey of Calculus .........................3.00 Credits** This course includes a study of topics in limits, continuity, differentiation of elementary functions, applications of the derivative, the definite integral and applications.

*Prerequisites: MATH 1111.*

**MATH 1211 - Calculus I ........................................4.00 Credits** This is a beginning course in calculus. Topics include differentiation and integration of algebraic and trigonometric functions, with applications to graphs of functions, rectilinear motion, maxima and minima, areas, volumes and work.

*Prerequisite: MATH 1113*

**MATH 1311 - Informal Geometry ........................3.00 Credits**

A study of the basic theorems and constructions in plane Euclidean geometry and an introduction to space geometry, central angles,

tangents, inscribed and circumscribed circles, polyhedra and polygons.

*Prerequisite: MATH 1111.*

**MATH 2008 - Foundations of Numbers**

**and Operations .......................................................3.00 Credits** This course is an Area F introductory mathematics course for early childhood education majors. This course will emphasize the under- standing and use of the major concepts of number and operations. As a general theme, strategies of problem solving will be used and discussed in the context of various topics.

*Prerequisite(s): Math 1101, Math 1111, or Math 1113.*

**MATH 2111 - Linear Algebra ................................3.00 Credits** This course concentrates on operations with vectors, matrices, systems of linear equations, determinants, vector spaces, linear trans- formations, eigenvalues and eigenvectors.

*Prerequisite: MATH 1211.*

**MATH 2212 - Calculus II.......................................4.00 Credits** This course is a continuation of Calculus I. Topics include differentiation and integration of transcendental functions, techniques of integration, arc length, surface or volumes, force, work, and introduction to differential equations, improper integrals, sequences and series and parametric equations.

*Prerequisite: MATH 1211 .*

**MATH 2213 - Calculus III .....................................4.00 Credits** Topics include vectors, the calculus of vector-valued functions, polar coordinates, spherical coordinates, function of several variables, directional derivatives, Lagrange multipliers and multiple integrals. *Prerequisite: MATH 2212 .*

**MATH 2411 - Basic Statistics ................................3.00 Credits** This course will include an introduction to probability and basic concepts of descriptive and inferential statistics. The computer and graphing calculators will be an integral part of this course. *Prerequisite: MATH 1111 or MATH 1113.*

**MATH 3000 - Numbers and Their Applications..3.00 Credits** This course will cover the basic properties of the system of natu- ral numbers, the system of whole numbers, the system of rational numbers and the system of real numbers. This course will also cover nomenclature and representations of numbers, number patterns, elements of number theory and applications.

*Prerequisite: MATH 1111 or MATH 1113.*

**MATH 3001 - Math Concepts**

**Course**

**Descriptions**

**using Technology......................................................3.00 Credits** This course explores the technical tools to study concepts in Geometry, Algebra and Calculus. Software such as Geometric Pad, Maple V, Interactive Precalculus and Language Proofs and Logic will be used to explore precalculus and calculus concepts and their applications in problem solving. Graphing calculators will be used to demonstrate concepts in mathematics and to do problem solving.

*Prerequisite: MATH 1113.*

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**MATH 3101 - Introduction to Number Theory ...3.00 Credits** Introduction to the classical arithmetic properties of the integers. Divisibility properties, primes and their distribution, congruencies, Diophantine equations and their applications, number-theoretic functions, Fermat and Euler theorems, continued fractions, Fibonacci numbers, Pythagorean triples and perfect numbers.

*Prerequisite: MATH 2212*

**MATH 3111 - Discrete Structures .........................3.00 Credits** This course includes topics such as logic, set relations, functions, counting techniques, mathematical induction, representations, combinatorial problems, elementary graph theory, network flow, recursion and finite state machine.

*Prerequisite: MATH 1113.*

**MATH 3112 - Discrete Mathematics.....................3.00 Credits** This course includes a study of topics in combinatorial mathematical processes. Topics in mathematical induction, set theory, number theory, combinations, permutations, probability theory including the induction principle, relations, recursions, the counting principle, generating functions, logic, and graph theory are covered. *Prerequisite: MATH 1113.*

**MATH 3211 - Ordinary Differential Equations ....3.00 Credits** This course includes topics in ordinary differential equations: separable equations, homogeneous and non homogeneous equations, exact equations, Euler equations, non- linear ordinary differential equations, the study of Laplace transforms and how to use them to solve practical problems as well as solving systems of linear differential equations.

*Prerequisite: MATH 2212.*

**MATH 3213 - Modern Geometry..........................3.00 Credits** This course is the study of metric, affine and projective geometries by means of groups of transformations and their invariants on the Euclidean plan.

*Prerequisite: MATH 2111 .*

**MATH 3314 - Math Statistics ................................3.00 Credits** Calculus-based course in probability and statistics covering probability distributions, probability densities, random variables, sampling, experimental design and nonparametric statistics and decision theory.

*Prerequisite: MATH 2212.*

**MATH 3411 - Statistical Methods .........................3.00 Credits** This course deals basic statistical methods encountered in applications. Topics covered include normal distribution, confidence interval, statistical inferences, hypothesis testing, regression and correlation, categorical data and non-parametric methods, analysis of variance. Statistical methods will be a major requirement for the mathematics program. It supports our efforts to strengthen our program and offer more Applied Mathematics courses to our majors who are seeking employment in areas requiring the use of statistics as well as those majors who intend to pursue graduate programs in statistics.

**Course**

**Descriptions**

**Prerequisite: Math 2411**

**MATH 3413 - Introduction to Combinatorics .....3.00 Credits** This course is the study of basic graph theory, permutations, combinations, inclusion-exclusion principle, recurrence relations, generation functions, occupancy problems, applications to probability theory, geometry of the plane, maps on the sphere, coloring

problems, finite structures, systems of distinct representatives, existence problems, magic squares, and Latin squares.

*Prerequisite: MATH 2111.*

**MATH 3423 - Intro to Operations Research........3.00 Credits** This course is the study of deterministic and stochastic models including transportation and assignment problems, network analysis, decision theory, queuing theory and simulation.

*Prerequisite: MATH 2111.*

**MATH 4111 - Modern Algebra I ...........................3.00 Credits** This course covers basic concepts in groups, rings, integral do- mains, homeomorphisms and isomorphism of groups.

*Prerequisite: MATH 2212*

**MATH 4112 - Modern Algebra II .........................3.00 Credits** This course covers elementary concepts in ring theory and field theory. *Prerequisite: MATH 4111.*

**MATH 4211 - Elements of Analysis I ....................3.00 Credits** This course is the study of the real number system, point- set theory of the real line, global and local properties of continuous functions, Law of Mean, convergence of sequences and series, and the Theory of Riemann Integration.

*Prerequisite: MATH 2213.*

**MATH 4212 - Elements of Analysis II ..................3.00 Credits** This course is the study of functions of several variables, implicit-function theorems, vectors in **Rn**, linear transformations in **Rn**, calculus of functions in higher dimensional Euclidean spaces, multiple integrals, line and surface integrals.

*Prerequisite: MATH 4211.*

**MATH 4214 - Intro to Complex Variables ...........3.00 Credits** The course includes a study of analytic, harmonic, continuous, and logarithmic functions, Cauchy-Riemann equations, power series, branch point, contours and contour integrals, Cauchy's theorem, and applications.

*Prerequisite: MATH 2213*

**MATH 4215 - Numerical Analysis ........................3.00 Credits** This course will provide an introductory knowledge of elementary numerical methods found useful in the field of computing. This will include number representation and errors, locating roots of equations, interpolation and numerical differentiation, numerical integration, minimization and maximization multivariate functions. *Prerequisite: MATH 2213*

**MATH 4220 - Partial Differential Equations .......3.00 Credits** This course deals with method of characteristics for first and second order partial differential equations, separation of variables, hyperbolic equations, parabolic equations, elliptic equations, Fourier series, Green's function. This course strengthens the applied math courses offerings in the mathematics program.

*Prerequisite: MATH 3211.*

**MATH 4313 - Topology ..........................................3.00 Credits** This course is the study of elementary topology. The topics include point set theory, topological spaces, metric spaces, subspaces, continuous mapping, homeomorphisms, connectedness, compactness, and intuitive concepts in topology.

*Prerequisite: MATH 4211*

**MATH 4511 - History of Mathematics .................3.00 Credits**

This course includes topics in numeral systems, Babylonian and Egyptian mathematics, Pythagorean and Euclidean mathematics, Hindu and Arabian mathematics, European mathematics from the Dark Ages to the Present.

*Prerequisite: Senior standing.*

MATH 4921 - Senior Project I 1.00 Credit

In this course, students will broaden their educational experience by reading and understanding technical literature in the areas of mathematics and computer science, organizing and writing a professional-level proposal, attending seminars and preparing a professional-level presentation. Students will draw upon and synthesize knowledge from their previous course work. Though revision of both the proposal and the oral presentation, students will improve their ability to communicate the main ideas.

Prerequisite: Senior Students

MATH 4922 - Senior Project II 2 Credits

In this course, students will broaden their educational experience by reading and understanding technical literature in the areas of mathematics and computer science, organizing and writing a professional-level paper, project implementation and coding, attending seminars and preparing a professional-level presentation. Project implementation should satisfy all requirements mentioned in the approved proposal accomplished during the course CSCI 4921. Students will draw upon and synthesize knowledge from their previous course work and educational experience.

Prerequisite: Senior Students and MATH 4921

**Media Education**

**MEED 4408 Selection and Utilization**

**of Educational Media ........................................................3 (3-0)**

Selection and Utilization of Educational Media A basic survey course dealing with general theory, sources, selection, evaluation and utilization of major types of education media. The course emphasizes utilization techniques for effective classroom instruction.

**Middle Grades Education**

**MGED 3314 - Math in Middle Grades ..................3.00 Credits** This course covers methods of teaching measurement, geometry number relations and operations, statistics, probability, and problem solving; uses of manipulative, models, and diagrams, and mathematics assessment (objectives, goals, alternative methods of assessment and purposes of assessment) modeling instructional formats; uses of calculators and technology; developing lesson plans and curriculum projects, and completing 20 hours of field experience. The National Council of Teachers of Mathematics (NCTM) provides a philosophical foundation for the course. Georgia Performance Standards (GPS) Standards provide a focus for lesson plans content areas.

**MGED 3315 - Curriculum seeds and**

**Characteristics Middle School Children ...............3.00 Credits** This course is designed to provide pre-service teachers with an overview of the curriculum needs and characteristics of middle grade children, along with program rationale goals, principles of curriculum development, organizational designs and teaching strategies.

**MGED 3326 - Preadolescent Literature ................3.00 Credits** This course is a survey of the types of literature appropriate for students in grades 4-8. Emphasis is placed upon extensive reading and evaluation of children's books as well as techniques for effective use in the classroom.

**MGED 4414 - Math and Science**

**for the Middle Grades .............................................3.00 Credits** This course covers methods of teaching measurement, geometry number relations and operations, statistics.

**MGED 4422 - Social Studies**

**in Middle Grades .....................................................3.00 Credits** This course teaches principles and practices of teaching concepts and skills in Social Studies in our culturally diverse society.

**MGED 4423 - Language Arts**

**in Middle Grades .....................................................3.00 Credits** This course is designed to give prospective teachers of middle grade students, the knowledge and skills necessary to assist youth in becoming efficient in their use of the six linguistic skills of listening,

speaking, reading, writing, viewing (visually representing), and illustrating for the overall purpose of effective communication in our culturally diverse society. This in turn will ensure wise decision-making and responsible citizenship in our democratic society. As such, the course is an integrated overview of the principles, practices, and materials used in teaching language arts for verbal, non-verbal and writ- ten communication.

**MGED 4434 - Science in Middle Grades...............3.00 Credits** This course examines teaching strategies appropriate for middle grade students to understand physical and biological concepts. Problem- solving, lecture and inquiry techniques are examined.

**MGED 4439 - Reading in the Middle Grades.......3.00 Credits** Course designed to focus attention on reading instruction as it relates to the particular needs of the early adolescent in the middle grades. The goal is to prepare prospective teachers to teach reading across the curriculum and the as a separate subject.

**MGED 4461 - Student Teaching in Middle Grades12.00 Credits** Observation and teaching for one semester under the direction of an approved supervising teacher in selected middle school centers. Seminar component is included. EDUC 4400. 12 credit hours.

**MGED 4481 - Intern I Grades Education .............6.00 Credits** Teaching middle school children in appropriate classroom settings under supervision. Designed for in-service classroom teachers only. Admission to in internship. 6 credit hours.

**MGED 4482 - Intern II Grades Education ...........6.00 Credits** Teaching middle school children in appropriate classroom settings under supervision. Designed for in-service classroom teachers only.

**Military Science**

**MILS 1111 - Intro to Tactical**

**Leadership ....................................................00 OR 1.00 Credits**

An introduction to the leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feed- back, and using effective writing skills. Students explore dimension of leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises. Continued emphasis is placed on recruitment and retention of students. The Cadre uses role modeling to facilitate building stronger relationships among the students through common experience and practical interaction which are critical aspects of the course.

**MILS 2211 - Innovative**

**Team Leadership..........................................00 OR 2.00 Credits** Students explore the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Aspects of personal motivation and team building are practiced planning, executing and assessing team exercises and participating in leadership labs. The focus continues to rank structure, and duties as well as broadening knowledge of land navigation and squad tactics. Case studies will provide a tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary

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**MILS 2221 - Foundations of**

**Tactical Leadership......................................00 OR 2.00 Credits** Students examine the challenges of leading tactical teams in the complex contemporary operating environment (COE). This course high- lights dimensions of terrain analysis, patrolling and operation orders. Continued study of the theoretical basis of the Army leader- ship framework explores the dynamics of adaptive leadership in the context of military operations. Students develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real world scenarios.

*Prerequisite(s): (RTPR 61 or RGTR 0198 US S \*) and (RTPW 2 or*

*RGTE 0199 US S\*)*

**MILS 3311 - Adaptive Team Leadership ....................................................00 OR 3.00 Credits** Students are challenged to study, practice, and evaluate adaptive team leadership skills as they are presented with the demands of the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills. Students will receive systematic and specific feedback on their leadership abilities. This course is to integrate the principles and practices of effective leadership, military operations and personal development in order to adequately prepare for the summer Leadership Development Advanced Course (LDAC).

**MILS 3321 - Leadership in Changing**

**Environ .........................................................00 OR 3.00 Credits** Continues methodology of instructions form MILS 3310. Students continue to be challenged with various leadership roles requiring them to analyze tasks, prepare written and oral operations orders, issue guidance for team members to accomplish for team members to accomplish tasks, delegate tasks and supervise, classroom subjects continue to develop and reinforce the Army’s 16 leadership dimensions, leadership styles, motivation and counseling techniques, and small unit patrolling and defensive operations. This course uses tough realistic scenarios related to small unit tactical operations to evaluating adaptative leadership skills develop, self awareness and critical thinking skills as related to the demands of the ROTC Leader Development Assessment Course (LDAC).

**MILS 4411 - Developing Adaptive Leaders.00 OR 3.00 Credits** Develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. The cadet is given situational member opportunities to assess risk, make ethical decisions and lead fellow ROTC cadets. The cadet receives lessons on military justice and personnel processes which better prepares to make the transition to becoming an Army officer. The cadets are provided opportunities to lead cadets at lower levels, both in a classroom and battalion leadership experiences are designed to prepare the cadet for their first unit of assignment. You will identify responsibilities of key staff, coordinate staff roles, and use battalion operations situations to teach, train, and develop subordinates.

**Course**

**Descriptions**

**MILS 4421 - Leadership in a**

**Complex World ............................................00 OR 3.00 Credits** Capstone course for all military science courses. The course is con- ducted as a seminar and prepares senior cadets for their transition to commission officer. The students will explore the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). You will examine dif-

ferences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. You also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing you for BOLC II and III, and your first unit of assignment. It uses case studies, scenarios, and "What Now, Lieutenant?"exercises to prepare you to face the complex ethical and practical demands of leading as a commissioned officer in the United States Army.

**Modern Languages**

**MDLG 1161, 1162 - Elementary Yoruba .........................3 (3-0)** Introduction to the Yoruba language and culture and general Nigerian culture. Emphasis on elements of Yoruba through oral and written exercises, pronunciation, conversation and reading; culture, geography and daily living.

**MDLG 2206 - Introduction to**

**Descriptive Linguistics ..................................................... 3 (3-0)** A scientific approach to language as one aspect of human behavior reflecting individual, social and cultural personality, analyzed according to it’s internal structure through elements of expression, phonemes, morphemes and syntax. Special attention given to the structure of English.

**Music**

**MUSC 0090 - Music Fundamentals/**

**Terminology .............................................................3.00 Credits**

Must be enrolled in one of the following Major(s): Music

For entering freshman who failed the orientation examination in Music Fundamentals and Terminology. A programmed course in fundamentals using taped, recorded materials, written materials, drill and laboratory practice in the learning and use of fundamental materials. *Departmental Approval.*

**MUSC 1001 - Fundamental Piano Class ...............1.00 Credits**

Must be enrolled in one of the following Major(s): Music

For those who did not qualify for college-level piano study, and for voice and instrumental music majors who do not meet the

requirements for MUSC 1004. Emphasizes rudiments of piano technique, keyboard, harmonization and transposition. *Departmental approval.*

**MUSC 1002 - Fundamental Piano Class ...............1.00 Credits**

For freshman music majors who did not qualify for college-level piano study, and for voice and instrumental music majors who do not meet the requirements for MUSC 1004. Emphasizes rudiments of piano technique, keyboard, harmonization and transposition, and intensive sight-reading drills.

*Prerequisite: MUSC 1001.*

**MUSC 1004 - Functional Piano Class....................1.00 Credits**

For majors in voice or instrumental music. Emphasizing development of technique, harmonization, transposition and sight reading to the level at which it can be used as an efficient tool in school music teaching.

*Prerequisite: MUSC 1002.*

**MUSC 1005 - Functional Piano Class...................1.00 Credits** Primarily for majors in voice or instrumental music. Others who qualify may take the course with permission of the instructor Emphasizing development of technique, harmonization, transposition, and sight reading to the level at which it can be used as an efficient tool in school music teaching.

*Prerequisite: MUSC 1002.*

**MUSC 1021 - Elem Harmony/Musicianship........3.00 Credits** Must be enrolled in one of the following Major(s): Music. Basic training in fundamentals, terminology, and principles of music theory. Beginning study of diatonic harmony, part- writing, composition and analysis. Also includes keyboard harmony. Required of all music majors. Departmental Approval. Music Majors.

*Departmental Approval*.

**MUSC 1021L - Ear-training Lab ...........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Fundamentals of ear-training. Aural skill development includes scale recognition and execution, interval identification, melodic and harmonic dictation, etc. Required of music majors to be taken with MUSC 1021 and MUSC 1022.

*Departmental Approval*.

**MUSC 1022 - Elementary Harmony/ Musicianship ....3.00 Credits** Basic training in fundamentals, terminology, and principles of music theory. Beginning study of diatonic harmony, part- writing, composition and analysis. Also includes key- board harmony. Required of all music majors.

*Prerequisite(s): MUSC 1021.*

**MUSC 1022L - Ear-training Lab ...........................1.00 Credits** Fundamentals of ear-training. Aural skill development includes scale, interval identification, melodic and harmonic dictation, etc. *Required of music majors. Prerequisite: MUSC 1021L.*

**MUSC 1071 - Applied Piano ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with piano as their principal instrument. Non-majors who qualify may be accepted. Previous piano instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature that meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1072 - Applied Piano ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in piano at the freshman level.

*Departmental approval.*

**MUSC 1100 - Music Appreciation.........................3.00 Credits** General education course for non-music majors. Study of the basic materials of music and a survey of important examples of music literature, style periods, and representative composers from the sixth century to the present day. Emphasizes techniques for listening analytically and critically.

**MUSC 1111 - Voice Class .......................................1.00 Credits** Group vocal instruction. Includes study and development of basic principles of healthy singing: breathing, tone production, diction, proper habits of posture. Stage presence and deportment are also emphasized. *May be taken by non-music majors.*

**MUSC 1112 - Voice Class .......................................1.00 Credits** Group vocal instruction. Includes study and development of the basic principles of healthy singing: breathing, tone production, diction, proper habits of posture. Stage presence and deportment are also emphasized. Required of all instrumental music and piano majors.

*May be taken by non-music majors.*

**MUSC 1123 - Introduction to World Music .........2.00 Credits** Primarily for music education majors, this course may be taken by others who have passed MUSC 1100. Introduction and general survey of music of the world's cultures.

**MUSC 1133 - Intro to Music Literature ...............3.00 Credits** Primarily for music majors, this course may be taken by others who have some musical background and have passed MUSC 1100. Intensive study of the principal forms and styles in music from the Renaissance to the present and focuses on score study, and analytical and critical listening.

*Prerequisite: MUSC 1022.*

**MUSC 1141 - Applied Voice...................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music

Intensified private vocal instruction for music majors with voice as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

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*Departmental approval.*

**MUSC 1142 - Applied Voice...................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in voice at the freshman level. Written departmental approval is required.

*Departmental approval.*

**MUSC 1160 - Stage Band.......................................1.00 Credits**

A laboratory for students to acquire experience in jazz ensemble performance styles of the music from the Big Band and Swing Era to the present. Students also explore their talents for arranging, composing and conducting jazz music.

*Prerequisite: Audition.*

**MUSC 1170 - Vocal Jazz Ensemble.......................1.00 Credits** Laboratory for vocal students to gain performing experience in the various styles of pop and jazz singing, as well as expanding their knowledge of the vocal performance literature.

*Prerequisite: Audition.*

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**MUSC 1180 - Concert Chorale..............................1.00 Credits** The choir consists of 30-50 students selected by audition. Concentration on choral literature for mixed voices from all periods of music history, including sacred, secular, art music and folk music. Regular on and off-campus performances and in and out of state tours. Open to all university students who can qualify by audition.

*Prerequisite: Audition.*

**MUSC 1185 - Chamber Singers ............................1.00 Credits** Small, highly select chamber ensemble of 12-16 students who sing advanced literature from all periods of music history appropriate for the size and nature of the group. Open to any university student who can qualify by audition. Extensive performance opportunities: concerts, festivals and competitions. However, due to the small number of voices assigned to each part, acceptance into the ensemble is competitive.

*Prerequisite: Audition.*

**MUSC 1190 - Marching Band ...............................1.00 Credits** Approximately 100-130 students. Provides musical support for athletic events, parades, etc. during the fall semester. Open to all students who can qualify by audition. Students are advised to bring their own instruments; however, some instruments are provided by the department.

*Prerequisite: Audition.*

**MUSC 1200 - Concert Band ..................................1.00 Credits** Approximately 40-50 students, selected by audition, the ensemble provides the opportunity for students to study and perform the best literature for concert and symphonic bands. Students may earn up to four semester hours for participation, with extensive opportunity for travel. Offered second semester.

*Prerequisite: Audition.*

**MUSC 1201 - Symphonic Band.............................1.00 Credits** Introduction to wind band literature through rehearsal and performance, as well as a course in developing the technical skills necessary to perform this literature. Offered second semester. *Prerequisite: Audition.*

**MUSC 1210 - Opera/Musical Theater**

**Course**

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**Workshop .................................................................1.00 Credits** May be taken by music majors and non-majors who qualify by audition. Workshop experience in opera and/or musical theater performance and performance principles. Includes study in acting, singing, stage deportment, and the technical aspects of musical production. Culminating course project-production and presentation of scenes, acts, and/or entire work.

*Prerequisite: Audition.*

**MUSC 1311 - Applied Violin..................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music

For music majors with violin as their principle instrument. Non- majors who qualify may be accepted. Previous violin instruction is

required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1312 - Applied Violin .................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in violin at the freshman level.

*Written departmental approval is required.*

*Written departmental approval is required.*

**MUSC 1321 - Applied Viola...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with viola as their principle instrument. Non-majors who qualify may be accepted. Previous viola instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1322 - Applied Viola...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in viola at the freshman level.

*Written departmental approval is required.*

**MUSC 1331 - Applied Cello...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with cello as their principle instrument. Non-majors who qualify may be accepted. Previous cello instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1332 - Applied Cello...................................1.00 Credits**. Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in cello at the freshman level.

*Written departmental approval is required.*

**MUSC 1341 - Applied String Bass .........................1.00 Credits**

For music majors with string bass as their principal instrument. Non-majors who qualify may be accepted. Previous string bass instruction is required and student must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1342 - Applied String Bass ........................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in string bass at the freshman level.

*Written departmental approval is required.*

**MUSC 1441 - Applied Clarinet .............................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Intensified private clarinet instruction for music majors with clarinet as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1442 - Applied Clarinet .............................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in clarinet at the freshman level.

*Written departmental approval is required.*

**MUSC 1443 - Applied Oboe ..................................1.00 Credits**

For music majors with oboe as their principal instrument. Non-majors who qualify may be accepted with instructor's approval. Previous oboe instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1444 - Applied Oboe ..................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in oboe at the freshman level.

*Written departmental approval is required.*

**MUSC 1445 - Applied Flute...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Intensified private flute instruction for music majors with flute as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1446 - Applied Flute...................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in flute at the freshman level.

*Written departmental approval is required*

**MUSC 1447 - Applied Bassoon...............................1.00 Credits**

For music majors with bassoon as their principal instrument. Non- majors who qualify may be accepted. Previous bassoon instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature that meet or exceed standards for current level of study.

**MUSC 1448 - Applied Bassoon...............................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in bassoon at the freshman level.

*Written departmental approval is required.*

**MUSC 1471 - Applied Saxophone .........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with saxophone as their principal instrument. Non-majors who qualify may be accepted. Previous saxophone instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1472 - Applied Saxophone .........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in saxophone at the freshman level.

*Written departmental approval is required.*

**MUSC 1511 - Applied Trumpet .............................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with the trumpet as their principal instrument. Non-majors who qualify may be accepted. Previous trumpet instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1512 - Applied Trumpet.............................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in trumpet at the freshman level.

*Written departmental approval is required.*

**MUSC 1541 - Applied Trombone ..........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with the trombone as their principal instrument. Non- majors who qualify may be accepted. Previous trombone instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1542 - Applied Trombone ..........................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in trombone at the freshman level.

*Written departmental approval is required.*

**MUSC 1611 - Applied Percussion .........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Intensified private percussion instruction for music majors with percussion as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study. *Written departmental approval is required.*

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**MUSC 1612 - Applied Percussion ......................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in percussion at the freshman level.

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*Written departmental approval is required.*

**MUSC 1641 - Applied Baritone Horn...................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with the baritone horn as their principal instrument. Non- majors who qualify may be accepted. Previous baritone horn instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1642 - Applied Baritone Horn...................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in baritone horn at the freshman level.

*Written departmental approval is required.*

**MUSC 1711 - Applied French Horn......................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with the French horn as their principal instrument. Non- majors who qualify may be accepted. Previous French horn instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of - study.

*Written departmental approval is required.*

**MUSC 1712 - Applied French Horn .....................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in French horn at the freshman level.

**Course**

**Descriptions**

*Written departmental approval is required.*

**MUSC 1741 - Applied Tuba ...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Intensified private tuba instruction for music majors with tuba as their principal instrument. Non-majors who qualify may be accepted. Student must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1742 - Applied Tuba ...................................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in tuba at the freshman level. *Written departmental approval is required.*

*Written departmental approval is required.*

**MUSC 1811 - Applied Organ.................................1.00 Credits**

Must be enrolled in one of the following Major(s):

Intensified private organ instruction for music majors with organ as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

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**MUSC 1812 - Applied Organ ................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in organ at the freshman level.

*Written departmental approval is required.*

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**MUSC 1911 - Applied Guitar ................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Intensified private guitar instruction for music majors with guitar as their principal instrument. Non-majors who qualify may be accepted. Students must, via an audition, demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Written departmental approval is required.*

**MUSC 1912 - Applied Guitar ................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in guitar at the freshman level.

*Written departmental approval is required.*

**MUSC 2000 - Music Seminar ................................1.00 Credits** Lectures, panel discussions, and performances by faculty, students, and guest personalities provide a unique network for exposure to all facets of music. Two semesters required.

*Prerequisite: MUSC 1022.*

**MUSC 2010 - Intro to Music Educati...............1.00 Credits**

A survey of the music education profession geared toward giving the music education candidate an overview of the field. Explores the teaching of pre-K-12 general, choral and instrumental music in the public school settings. Laboratory experience provided. Classroom observation hours required.

*Prerequisite(s): MUSC 2021.*

**MUSC 2021 - Inter Harmony/Musicianship ........3.00 Credits** Continuation of training in diatonic and chromatic harmony, part- writing, composition and analysis.

Keyboard harmony also emphasized.

*Prerequisite: MUSC 1022.*

**MUSC 2021L - Ear-training Lab ...........................1.00 Credits** Continuation of aural skill development involving diatonic and chromatic, contemporary melodies and harmonies. To be taken with corresponding theory courses.

*Prerequisite: MUSC 1022L.*

**MUSC 2022 - Inter Harmony/Musicianship ........3.00 Credits** Continuation of training in diatonic and chromatic harmony, part- writing, composition and analysis. Keyboard harmony also emphasized.

*Prerequisite: MUSC 2021.*

**MUSC 2022L - Ear-training Lab ...........................1.00 Credits** Continuation of aural skill development involving diatonic and chromatic, contemporary melodies and harmonies. To be taken with corresponding theory courses.

*Prerequisite: MUSC 2021L.*

**MUSC 2024 - Composition ....................................3.00 Credits** Introductory study of composition for students who may desire to pursue the subject in a more advanced and detailed manner.

*Prerequisite: MUSC 2022 or concurrent enrollment.*

**MUSC 2071 - Applied Piano ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music Continuation of private piano instruction at the sophomore level. *Prerequisite: 1072.*

**MUSC 2072 - Applied Piano ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music Continuation of private piano instruction at the sophomore level. *Prerequisite: MUSC 2071.*

**Course**

**Descriptions**

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**MUSC 2141 - Applied Voice ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with voice as their principal instrument. Non-majors who qualify may be accepted. Previous voice instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite :1142*

**MUSC 2142 - Applied Voice ..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music Continuation of private instruction in voice at the sophomore level.

*Prerequisite: MUSC 1141, 1142.*

**MUSC 2171 - Diction for Singers ..........................2.00 Credits**

*Prerequisite(s): MUSC 1022 US C and MUSC 1142 US C.*

**MUSC 2280 - Computer Generated Music ..........2.00 Credits** The development of practical experience with analog and digital synthesizer programming, computer assisted synthesizer programming and computer based MIDI sequencing. Exposes students to current capabilities of technology as they relate to programming a song, instrumentation and teaching.

*Prerequisite: MUSC 2022.*

**MUSC 2311 - Applied Violin..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with violin as their principle instrument. Non-majors who qualify may be accepted. Previous violin instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisites: MUSC 1311, 1312.*

**MUSC 2312 - Applied Violin .................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied violin at the sophomore level.

*Prerequisite: MUSC 2311.*

**MUSC 2321 - Applied Viola...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with viola as their principle instrument. Non-majors who qualify may be accepted. Previous viola instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1322.*

**MUSC 2322 - Applied Viola...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied viola at the sophomore level.

*Prerequisite: MUSC 2321.*

**MUSC 2331 - Applied Cello...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. For music majors with cello as their principal instrument. Non-majors who qualify may be accepted. Previous cello instruction is required and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisites: MUSC 1331, 1332.*

**MUSC 2332 - Applied Cello...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in cello at the sophomore level. *Prerequisite: MUSC 2331.*

*Prerequisites: MUSC 1331, 1332.*

**MUSC 2341 - Applied String Bass ........................1.00 Credits**

For music majors with string bass as their principal instrument. Non- majors who qualify may be accepted. Previous string bass instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: 1341, 1342,*

**MUSC 2342 - Applied String Bass ........................1.00 Credits**

Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in string bass at the sophomore level.

*Prerequisite: MUSC 2341.*

**MUSC 2441 - Applied Clarinet .............................1.00 Credits** For music majors with clarinet as their principal instrument. Non- majors who qualify may be accepted. Previous clarinet instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1442.*

**MUSC 2442 - Applied Clarinet .............................1.00 Credits**

Must be enrolled in one of the following Major(s):

Music. Continuation of private applied clarinet at the sophomore level.

*Prerequisite: MUSC 2441*

**MUSC 2443 - Applied Oboe ..................................1.00 Credits**

For music majors with oboe as their principal instrument. Non-majors who qualify may be accepted. Previous oboe instruction is required, and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1444.*

**MUSC 2444 - Applied Oboe..................................1.00 Credits**

Must be enrolled in one of the following Major(s):

Music. Continuation of private applied oboe at the sophomore level.

*Prerequisite: MUSC 2443.*

*Prerequisite: MUSC 1441*

**MUSC 2445 - Applied Flute...................................1.00 Credits** For music majors with flute as their principal instrument. Non-majors who qualify may be accepted. Previous flute instruction is required, and students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1446.*

**MUSC 2446 - Applied Flute...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music Continuation of private applied flute at the sophomore level. *Prerequisite: MUSC 2445.*

**MUSC 2447 - Applied Bassoon..............................1.00 Credits**

For music majors with bassoon as their principal instrument. Non- majors who qualify may be accepted. Previous bassoon instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1448.*

**MUSC 2447E - Applied Bassoon ...........................1.00 Credits**

**MUSC 2448 - Applied Bassoon..............................1.00 Credits**

Must be enrolled in one of the following Major(s):

Music. Continuation of private applied bassoon at the sophomore level.

*Prerequisite: MUSC 2447.*

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**MUSC 2471 - Applied Saxophone .........................1.00 Credits** For music majors with saxophone as their principal instrument. Non- majors who qualify may be accepted. Previous saxophone instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1472.*

**MUSC 2472 - Applied Saxophone .........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private applied study in saxophone at the sophomore level.

*Prerequisites: MUSC 2471*

**MUSC 2511 - Applied Trumpet .............................1.00 Credits** For music majors with trumpet as their principal instrument. Non- majors who qualify may be accepted. Previous trumpet instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisites: MUSC 1512.*

**MUSC 2512 - Applied Trumpet.............................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private, applied study in trumpet at the sophomore level.

*Prerequisite: MUSC 2511.*

**MUSC 2541 - Applied Trombone ..........................1.00 Credits**

For music majors with trombone as their principal instrument. Non- majors who qualify may be accepted. Previous trombone instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisites: MUSC 1542.*

**MUSC 2542 - Applied Trombone ..........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private, applied study of trombone at the sophomore level.

*Prerequisites: MUSC 2541.*

**MUSC 2611 - Applied Percussion .........................1.00 Credits**

For music majors with percussion as their principal instrument. Non- majors who qualify may be accepted. Previous percussion instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study. *Prerequisites: MUSC 1611, 1612.*

**MUSC 2612 - Applied Percussion .........................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continued study of private, applied percussion at the sophomore level. *Prerequisites: MUSC 1611, 1612.*

**MUSC 2641 - Applied Baritone Horn...................1.00 Credits** For music majors with baritone horn as their principal instrument. Non- majors who qualify may be accepted. Previous baritone horn instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study. Must be enrolled in one of the following Major(s):

*Prerequisite: MUSC 1642*

**MUSC 2642 - Applied Baritone Horn...................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private, applied study of baritone horn at the sophomore level.

*Prerequisites: MUSC2621 .*

**MUSC 2711 - Applied French Horn......................1.00 Credits** For music majors with French horn as their principal instrument. Non- majors who qualify may be accepted. Previous French Horn instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1712.*

**MUSC 2712 - Applied French Horn .....................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continuation of private, applied study of French horn at the sophomore level.

*Prerequisites: MUSC 2711.*

**MUSC 2741 - Applied Tuba ...................................1.00 Credits**

For music majors with tuba as their principal instrument. Non- majors who qualify may be accepted. Previous tuba instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1742.*

**MUSC 2742 - Applied Tuba ...................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. Continued study of private, applied tuba at the sophomore level.

*Prerequisites: MUSC 2741 .*

**MUSC 2811 - Applied Organ.................................1.00 Credits** For music majors with organ as their principal instrument. Non- majors who qualify may be accepted. Previous organ instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1812.*

**MUSC 2812 - Applied Organ ................................1.00 Credits** Continuation of private, applied study of organ at the sophomore level.

*Prerequisite: MUSC 2812.*

**MUSC 2911 - Applied Guitar ................................1.00 Credits**

For music majors with guitar as their principal instrument. Non- majors who qualify may be accepted. Previous guitar instruction is required. Students must demonstrate sufficient proficiency for acceptance at this course level. Students will work toward continued mastery of technique and appropriate literature which meet or exceed standards for current level of study.

*Prerequisite: MUSC 1912.*

**MUSC 2912 - Applied Guitar ................................1.00 Credits** Continuation of private, applied study of guitar at the sophomore level.

*Prerequisite: MUSC2911. .*

**MUSC 3000 - Junior Recital..................................1.00 Credits** Must be enrolled in one of the following Major(s): Music. May be performed by music majors for credit. Recital must be approved by student's applied instructor. A preliminary recital hearing must be given before music faculty and approved at least six weeks before official recital can be presented.

*Departmental approval.*

**MUSC 3021 - Counterpoint ...................................3.00 Credits** Basic training in 16th and 18th century counterpoint. Introduction and study of the fundamentals and principles of the respective periods. Also involves musical analysis, part-writing and composition in both musical styles.

*Prerequisite: MUSC 2022.*

**MUSC 3022 - Form and Analysis I .......................3.00 Credits** Study of the formal structure of music from the Classical and Romantic Periods using representative works from the respective periods. Involves harmonic, melodic and structural analysis, and composition.

*Prerequisite: MUSC 2022.*

**MUSC 3023 - Form and Analysis II......................3.00 Credits** Study of the formal structures in music of the 20th century using representative works of the period. Involves harmonic, melodic and structural analysis, as well as composition.

*Prerequisite: MUSC 3022.*

**MUSC 3024 - Instrumentation/Orchestration .....3.00 Credits**

**Course**

**Descriptions**

A study of ranges, transposition, technical limitations and color combinations of standard band and orchestral instruments. Involves core analysis and scoring of short compositions for band and small ensembles.

*Prerequisite: MUSC 2022.*

**MUSC 3026 - Jazz Improvisation .........................2.00 Credits** Study of materials of improvisation, choral functions, ear training, chord progressions and improvisational styles of outstanding performers.

*Prerequisite: MUSC 2022.*

**MUSC 3050 - Brasswinds Class ............................1.00 Credits** Study of the structure, principles of tone production and elementary playing techniques of brass wind instruments including proper care of these instruments.

*Prerequisite: MUSC 1022.*

**MUSC 3058 - Brass Ensemble...............................1.00 Credits** Open only to junior level players for credit. Open without credit to others having the necessary proficiency. Study and performance of the best music literature for small combinations of brass instruments.

*Prerequisite: Audition.*

**MUSC 3059 - Brass Ensemble...............................1.00 Credits** Open only to junior level players for credit. Open without credit to others having the necessary proficiency. Study and performance of the best music literature for small combinations of brass instruments.

**MUSC 3071 - Applied Piano ..................................2.00 Credits** Junior level applied piano. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2072 and audition.*

**MUSC 3071E - Applied Piano ................................1.00 Credits** Junior level applied piano. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level. *Prerequisite(s): MUSC 2072. and audition.*

**MUSC 3072 - Applied Piano ..................................2.00 Credits**  Continuation of private, applied study of piano for majors who have passed the junior level juried audition.

*Prerequisite: 2072.*

**MUSC 3072E - Applied Piano ................................1.00 Credits** Continuation of private, applied study of piano for music education majors who have passed the junior level juried audition.

*Prerequisite(s): - MUSC 2072 and audition.*

**MUSC 3125 - History of Jazz ................................3.00 Credits** The study of jazz from its beginning African heritage, with emphasis on jazz development and such influences as work songs, ragtime, traditional jazz, blues and popular music.

*Prerequisite: MUSC 2022.*

**MUSC 3133 - Music History and Literature .......3.00 Credits** Chronological survey of music history, musical forms and music literature from ancient to modern times. MUSC 3133 moves from classical antiquity to 1750; MUSC 3134 covers music from 1750 to the 20th century.

**Course**

**Descriptions**

*Prerequisite(s): MUSC 1133, MUSC 2022.*

**MUSC 3134 - Music History & Literature II ......3.00 Credits** Chronological survey of music history, musical forms and music literature from ancient to modern times. MUSC 3133 moves from classical antiquity to 1750; MUSC 3134 covers music from 1750 to the 20th century.

*Prerequisite(s): MUSC 1133 US C and MUSC 2022 US C.*

**MUSC 3141 - Applied Voice ..................................2.00 Credits** Junior level applied voice. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2142 and audition.*

**MUSC 3141E - Applied Voice ..................................1.00 Credits**

Junior level applied voice for majors. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2142 and audition.*

**MUSC 3142 - Applied Voice ..................................2.00 Credits**

Continuation of private, applied study of voice for majors who have passed the junior level juried audition.

*Prerequisite: MUSC 3141.*

**MUSC 3142E - Applied Voice ..................................1.00 Credits**

Continuation of private, applied study of voice for music education majors who have passed the junior level juried audition.

*Prerequisite: MUSC 3141.*

**MUSC 3611 - Applied Percussion .........................2.00 Credits**

Junior level applied percussion. Majors must accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2612 and audition.*

**MUSC 3611 E - Applied Percussion........................1.00 Credits**

Junior level lessons in applied percussion for majors. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisite(s): MUSC 2612, and audition.*

**MUSC 3612 - Applied Percussion .........................2.00 Credits** Continuation of private, applied study of percussion for majors who have passed the junior level juried audition.

*Prerequisite: MUSC 3611.*

**MUSC 3612E - Applied Percussion.......................2.00 Credits** Continuation of private, applied study of percussion for music education majors who have passed the junior level juried audition.

*Prerequisites: MUSC 3611.*

**MUSC 3171 - Vocal Methods.................................1.00 Credits** Primarily for voice and non-voice majors. Methods and procedures for the attainment of superior vocal and choral singing. Extensive practice in sight-singing, choral conducting, and diction. Vocal and choral literature are also emphasized. Required of voice and piano majors.

*Prerequisite: MUSC 2022.*

**MUSC 3230 - Woodwinds Class ............................1.00 Credits** Study of the structure, principles of tone production and elementary playing techniques of woodwind instruments; reed-making and proper care of these instruments.

**MUSC 3281 - Woodwind Ensemble ......................1.00 Credits** Open only to junior level players for credit. Open without credit to others having the necessary proficiency. Study and performance of the best music literature for small combinations of woodwind instruments.

*Prerequisite: Audition.*

**MUSC 3282 - Woodwind Ensemble ......................1.00 Credits** Open only to junior level players for credit. Open without credit to others having the necessary proficiency. Study and performance of the best music literature for small combinations of woodwind instruments. *Prerequisite: Audition.*

**MUSC 3311 - Applied Violin..................................2.00 Credits**

Junior level applied violin. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2312 and audition.*

**MUSC 3311E - Applied Violin ..............................1.00 Credits**

Junior level applied violin. Music education majors must be accepted, via juried audition, into the junior level of applied instruction and performance standards at this level.

*Prerequisites: MUSC 2312 and audition.*

**MUSC 3312 - Applied Violin .................................2.00 Credits**

Continuation of private, applied study of violin for majors who have passed the junior level juried audition

*Prerequisite: MUSC 3311.*

**MUSC 3312EApplied Violin...............................1.00 Credits**

Continuation of private, applied study of violin for music education majors who have passed the junior level juried audition. *Prerequisite: MUSC 3311E.*

**MUSC 3321 - Applied Viola...................................2.00 Credits**

Junior level applied viola. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level. *Prerequisite: MUSC 2322 and audition.*

**MUSC 3321E - Applied Viola ................................1.00 Credits**

Junior level applied violin. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisite: MUSC 2322.*

**MUSC 3322 - Applied Viola...................................2.00 Credits**

Continuation of private, applied study of viola for majors who have passed the junior level juried audition

*Prerequisite: MUSC 3321.*

**MUSC 3322E - Applied Viola ................................1.00 Credits**

Continuation of private, applied study of viola for music education majors who have passed the junior level juried audition *Prerequisite: MUSC 3321E.*

**MUSC3331 - Applied Cello...................................2.00 Credits**

Junior level applied cello. Majors must be accepted, via juried audition, into the junior level of applied instruction and performance standards at this level.

*Prerequisites: MUSC 2332 and audition.*

**MUSC3331E Applied Cello ................................1.00 Credits**

Junior level applied cello. Music education majors must be accepted, via juried audition, into the junior level of applied instruction and performance standards at this level.

*Prerequisites: MUSC 2332 and audition.*

**MUSC 3332 - Applied Cello...................................2.00 Credits**

Continuation of private, applied study of cello for music majors who have passed the junior level juried audition

*Prerequisite: MUSC 3331.*

**MUSC 3332E - Applied Cello ................................1.00 Credits** Continuation of private, applied study of cello for music education majors who have passed the junior level juried audition

*Prerequisite: MUSC 3331E.*

**MUSC 3341 - Applied String Bass .........................2.00 Credits**

Junior level applied string bass. Majors must be accepted, via juried audition, into the junior level of applied instruction and performance standards at this level.

*Prerequisites: MUSC 2342 and audition.*

**MUSC 3341E - Applied String Bass ......................1.00 Credits**

Junior level applied string bass. Music education majors must be accepted, via juried audition, into the junior level of applied instruction and performance standards at this level.

*Prerequisites: MUSC 2342 and audition.*

**MUSC 3342 - Applied String Bass .........................2.00 Credits**

Continuation of private, applied study of string bass for music majors who have passed the junior level juried audition *Prerequisite: MUSC 3341.*

**MUSC 3342E - Applied String Bass ......................1.00 Credits**

Continuation of private, applied study of string bass for music majors who have passed the junior level juried audition. . *Prerequisite: MUSC 3341E.*

**MUSC 3441 - Applied Clarinet .............................2.00 Credits** Junior level applied clarinet. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2442 and audition.*

**MUSC 3441E - Applied Clarinet...........................1.00 Credits** Junior level applied clarinet. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must

demonstrate proficiency commensurate with technical and

performance standards at this level.

*Prerequisites: MUSC, 2442 and audition.*

**MUSC 3442 - Applied Clarinet .............................2.00 Credits** Continuation of private, applied study of clarinet for music majors who have passed the junior level juried audition

*Prerequisite: MUSC 3441.*

**MUSC 3442E - Applied Clarinet...........................1.00 Credits** Continuation of private, applied study of clarinet for music education majors who have passed the junior level juried audition.

*Prerequisite: MUSC 3441E*

**MUSC 3443 - Applied Oboe ..................................2.00 Credits**

Junior level applied oboe. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2444 and audition..*

**MUSC 3443E - Applied Oboe ................................1.00 Credits**

Continuation of private, applied study of oboe for music majors who have passed the junior level juried audition.

**Course**

**Descriptions**

*Prerequisite: MUSC 2444.*

**MUSC 3444 - Applied Oboe ..................................2.00 Credits**

Continuation of private, applied study of oboe for music majors who have passed the junior level juried audition

technique and appropriate literature that meet or exceed standards for current level of study.

*Prerequisite: MUSC 3443.*

**MUSC 3444E - Applied Oboe ................................1.00 Credits**

Continuation of private, applied study oboe bass for music majors who have passed the junior level juried audition

*Prerequisite: MUSC 3443E*

**MUSC 3445 - Applied Flute...................................2.00 Credits**

Junior level applied flute. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2446 and audition.*

**MUSC 3445E - Applied Flute .................................1.00 Credits**

Junior level applied flute. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisite(s): MUSC 2446 and audition.*

**MUSC 3446 - Applied Flute...................................2.00 Credits**

Applied lesson for music majors. All junior level requirements apply.

*Prerequisite: MUSC 3445.*

**MUSC 3446E - Applied Flute .................................1.00 Credits** Applied lesson for music education majors. All junior level requirements apply.

*Prerequisite: MUSC 3445E*

**MUSC 3447 - Applied Bassoon...............................2.00 Credits**

Junior level applied bassoon. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2448 and audition.*

**MUSC 3447E - Applied Bassoon ............................1.00 Credits**

Junior level applied bassoon. Music Education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2448 and audition*

**MUSC 3448 - Applied Bassoon...............................2.00 Credits**

Applied lesson for music education majors. All junior level requirements apply.

*Prerequisites: MUSC 3447, MUSC 3447*

**MUSC 3448E - Applied Bassoon ............................1.00 Credits**

Applied lesson for music education majors. All junior level requirements apply.

*Prerequisite: MUSC 3447E.*

**MUSC 3471 - Applied Saxophone .........................2.00 Credits** Junior level applied saxophone. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2472 and audition.*

**MUSC 3471E - Applied Saxophone .......................1.00 Credits** Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisite(s): MUSC 2472 and audition .*

**MUSC 3472 - Applied Saxophone .........................2.00 Credits** Applied lesson for majors. All junior level requirements apply

*Prerequisite*: *MUSC 3471.*

**MUSC 3472E - Applied Saxophone ......................1.00 Credits** Applied lesson for music education majors. All junior level requirements apply.

*Prerequisite: MUSC 3471E*

**MUSC 3511 - Applied Trumpet .............................2.00 Credits** Junior level applied trumpet. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2512 and audition.*

**MUSC 3511E - Applied Trumpet ..........................1.00 Credits** Junior level applied trumpet. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2512 and audition.*

**MUSC 3512 - Applied Trumpet.............................2.00 Credits** Applied lesson for music majors. All junior level requirements apply.

*Prerequisite: MUSC 3511.*

**MUSC 3512E - Applied Trumpet ...........................1.00 Credits** Applied lesson for music education majors. All junior level requirements apply.. *Prerequisite: MUSC 3511E*

**MUSC 3541 - Applied Trombone..........................2.00 Credits** Junior level applied trombone. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: 2542 and audition.*

**MUSC 3541E - Applied Trombone ........................1.00 Credits** Junior level applied trombone. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must

demonstrate proficiency commensurate with technical and

performance standards at this level.

*Prerequisite(s): MUSC 2542and audition.*

**MUSC 3542 - Applied Trombone ..........................2.00 Credits** Applied lesson for music majors. All junior level requirements apply.

*Prerequisite: MUSC 3541.*

**MUSC 3542E - Applied Trombone ........................1.00 Credits** Applied lesson for music education majors. All junior level requirements apply

*Prerequisite(s): MUSC 3541E.*

**MUSC 3600 - Percussion Class .............................1.00 Credits** Study of the structure, principles of tone production and elementary playing techniques of percussion instruments, including proper care of these instruments.

*Prerequisite: MUSC 1022.*

**MUSC 3641 - Applied Baritone Horn...................2.00 Credits** Junior level applied baritone horn. Majors be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: 2642 and audition..*

**MUSC 3641E - Applied Baritone Horn ................2.00 Credits** Junior level applied baritone horn. Music education majors be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: 2642 and audition.*

**MUSC 3642 - Applied Baritone Horn...................2.00 Credits** Applied lesson for music majors. All junior level requirements apply

**Course**

**Descriptions**

*Prerequisite: MUSC 3641.*

**MUSC 3642E - Applied Baritone Horn**

Junior level applied instruction for music education majors. All lesson prerequisites apply.

*Prerequisite: MUSC 2642*

**MUSC 3681 - Percussion Ensemble ......................1.00 Credits** Primarily for percussion majors. Open to others having the necessary proficiency. Study and performance of music for various combinations of instruments in various styles for the rounding out of training in performance through small group playing experience.

*Prerequisite: Audition.*

**MUSC 3682 - Percussion Ensemble ......................1.00 Credits** Primarily for percussion majors. Open to others having the necessary proficiency. Study and performance of music for various combinations of instruments in various styles for the rounding out of training in performance through small group playing experience.

*Prerequisite: Audition.*

**MUSC 3700 - Strings Class....................................1.00 Credits** Study of the structure, principles of tone production and elementary playing techniques of several stringed instruments. Various types of bowing are studied as well as proper care of the instruments. *Prerequisite: MUSC 1022.*

**MUSC 3711 - Applied French Horn......................2.00 Credits** Junior level applied French horn. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2711,MUSC 2712.*

**MUSC 3711E - Applied French Horn ....................1.00 Credits** Junior level applied French horn. Music education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level. *Prerequisite(s): MUSC 2712 and audition.*

**MUSC 3712 - Applied French Horn .....................2.00 Credits** Applied lesson for music majors. All junior level requirements apply.

*Prerequisite: MUSC 3177.*

**MUSC 3712E - Applied French Horn....................1.00 Credits** Applied lesson for music education majors. All junior level requirements apply.

*Prerequisite(s): MUSC MUSC 3711E.*

**MUSC 3741 - Applied Tuba ...................................2.00 Credits** Junior level applied tuba. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

**Course**

**Descriptions**

*Prerequisites: MUSC 2742 and audition.*

**MUSC 3741E - Applied Tuba .................................1.00 Credits** Applied lessons for music education majors. All junior level lesson requirements apply.

*Prerequisite(s): MUSC 2742 and audition.*

**MUSC 3742 - Applied Tuba ...................................2.00 Credits** Applied lesson for music education majors. All junior level requirements apply. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisite: MUSC 3741.*

**MUSC 3742E - Applied Tuba .................................1.00 Credits**

Applied lesson for music education majors. All junior level requirements apply.

*Prerequisite: MUSC 3741E*

**MUSC 3811 - Applied Organ.................................2.00 Credits** Junior level applied organ. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2812 and audition.*

**MUSC 3811E - Applied Organ ...............................1.00 Credits**

Music Education majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2812 and audition.*

**MUSC 3812 - Applied Organ ................................2.00 Credits**

Junior level applied organ. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level. Prerequisites: MUSC 2812 and audition.

*Prerequisite: MUSC 3811.*

**MUSC 3812E - Applied Organ ...............................1.00 Credits** Junior level lessons for music education majors. All prerequisites apply.

*Prerequisite: MUSC 3811E.*

**MUSC 3911 - Applied Guitar ................................2.00 Credits** Junior level applied guitar. Majors must be accepted, via juried audition, into the junior level of applied instruction. Students must demonstrate proficiency commensurate with technical and performance standards at this level.

*Prerequisites: MUSC 2912 and audition.*

**MUSC 3911E - Applied Guitar...............................1.00 Credits** Junior level lessons for music education majors. All prerequisites apply.

*Prerequisite: MUSC 2912 US C*

**MUSC 3912 - Applied Guitar ................................2.00 Credits** Applied lesson for music education majors. All junior level requirements apply.

*Prerequisites: MUSC 3911.*

**MUSC 3912E - Applied Guitar ..............................1.00 Credits** Junior level lessons for music education majors. All prerequisites apply.

*Prerequisite: MUSC 3011E.*

**MUSC 4000 - Senior Recital ..................................1.00 Credits** Required of all music majors for Bachelor of Arts degree. Recital repertoire must be approved by student's applied instructor, and a preliminary recital hearing must be given before music faculty, and approved, at least six weeks before official recital can be presented.

*Departmental approval.*

**MUSC 4050 - Keyboard Methods .........................2.00 Credits** Study of graded material, literature and teaching technique appropriate to piano teaching.

*Prerequisite: MUSC 2072.*

**MUSC 4071 - Applied Piano ..................................2.00 Credits**

Senior level applied piano.

*Prerequisite: MUSC 3072*

**MUSC 4071E - Applied Piano ................................1.00 Credits**

Senior level lessons for music education majors.

*Prerequisite(s): MUSC 3071E US C and MUSC 3072E US C*

**MUSC 4072 - Applied Piano ..................................2.00 Credits**

Senior level applied piano.

*Prerequisite: MUSC 4071.*

**MUSC 4072E - Applied Piano ................................1.00 Credits**

Senior level lessons for music education majors.

*Prerequisite: MUSC 4071E.*

**MUSC 4130 - African-American Music Survey ..3.00 Credits** General survey of Black music from its African origins to its various American developments, with attention to Afro- European acculturation ansaesthetic anaesthetic and anthropological amalgamation.

*Prerequisite: MUSC 3134.*

**MUSC 4141 - Applied Voice ..................................2.00 Credits** Senior level applied voice. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisites: MUSC 3142.*

**MUSC 4141E Applied Voice ..................................1.00 Credits** Senior level applied voice for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisites: MUSC 3142.*

**MUSC 4142 - Applied Voice ..................................2.00 Credits** Senior level applied voice. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 4141.*

**MUSC 4142E Applied Voice ..................................1.00 Credits** Senior level applied voice for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisites: MUSC 3142E.*

**MUSC 4171 - Vocal Pedagogy ...............................2.00 Credits**

An in-depth study of the science and methodology related to the training of the human voice. The course is broken into three segments: the study of the anatomy and physiology of the "vocal organ", and all of the systems that contribute to or support the creating of vocal sound' secondly, study and utilization of the "practicum" methods for pedagogical issues, such as varying vocal methodologies, choral singing for vocal majors, choices of literature, etc.

*Prerequisite(s): MUSC 3171.*

**MUSC 4220 - Choral Conducting .........................3.00 Credits** Fundamental baton technique; score reading by chord singing and part singing; score playing analysis and interpretations; survey of representative literature suitable for the junior and senior high school chorus.

*Prerequisite: MUSC 2022.*

**MUSC 4230 - Instrumental Conducting ..............3.00 Credits** Fundamental baton techniques, score reading by chord singing and part singing, score playing, analysis and interpretation; survey of representative literature suitable for the junior and senior high school band or instrumental ensemble. Laboratory experiences provided in correlation with the instrumental ensemble classes and the college band.

*Prerequisite: MUSC 2022.*

**MUSC 4281 - Woodwind Ensemble ......................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency.

*Prerequisite(s): MUSC 3281 and MUSC 3282*

**MUSC 4282 - Woodwind Ensemble ......................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency. Continuation of MUSC 3281 and 3282.

*Prerequisite(s): MUSC 3281 and MUSC 3282*

**MUSC 4311 - Applied Violin..................................2.00 Credits**

Senior level applied violin. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 3312.*

**MUSC 4311E - Applied Violin ...............................1.00 Credits**

Senior level applied violin. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 3312.*

**MUSC 4312 - Applied Violin .................................2.00 Credits**

Senior level applied violin Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 4311.*

**MUSC 4312E - Applied Violin...............................1.00 Credits**

Senior level applied violin for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written

*Prerequisite: MUSC 4311E.*

**MUSC 4321 - Applied Viola...................................2.00 Credits**

Senior level applied viola. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written

**Course**

**Descriptions**

*Prerequisite: MUSC 3322.*

**MUSC 4321E - Applied Viola ................................1.00 Credits**

Senior level applied viola for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 3322.*

**MUSC 4322 - Applied Viola...................................2.00 Credits**

Senior level applied viola. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written

*Prerequisite: MUSC 4321.*

**MUSC 4322E - Applied Viola ................................1.00 Credits**

Senior level applied viola for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 4321E.*

**MUSC 4331 - Applied Cello...................................2.00 Credits**

Senior level applied cello. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 3332.*

**MUSC 4331E - Applied Cello ................................1.00 Credits**

Senior level applied cello for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 3332E.*

**MUSC 4332 - Applied Cello...................................2.00 Credits**

Senior level applied cello. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 4331.*

**MUSC 4332E - Applied Cello ................................1.00 Credits**

Senior level applied cello for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 4431E.*

**MUSC 4341 - Applied String Bass .........................2.00 Credits**

Senior level applied string bass. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

**Course**

**Descriptions**

*Prerequisite: MUSC 3342.*

**MUSC 4341E - Applied String Bass ......................1.00 Credits**

Senior level applied string bass for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 3342 .*

**MUSC 4342 - Applied String Bass .........................2.00 Credits**

Senior level applied string bass. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written. *Prerequisite: MUSC 4341.*

*Prerequisite: MUSC 2472.*

**MUSC 4342E - Applied String Bass ......................1.00 Credits**

.Senior level applied string bass for music education majors. Continuation of technical training as well as development of a broad repertory of literature selected from all periods of music history from which literature was written.

*Prerequisite: MUSC 4341E.*

**MUSC 4411 - Applied Clarinet..............................2.00 Credits** Senior level applied clarinet continuation of technical training, as well as development of a broad reparatory of literature selected from all periods of music history.

*Prerequisite: MUSC 3412.*

**MUSC 4411E - Applied Clarinet ............................1.00 Credits**

Senior level applied for music education majors.

*Prerequisite: MUSC 3412E.*

**MUSC 4412 - Applied Clarinet .............................2.00 Credits** Senior level applied clarinet continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3412.*

**MUSC 4412E - Applied Clarinet............................1.00 Credits**

Senior level applied for music education majors.

*Prerequisite: MUSC 3412.*

**MUSC 4436 - Elementary School Musical Methods 3.00 Credits**

Designed to acquaint the pre-service teacher with approved methods of presenting music as a series of meaningful experiences in the life of the child from pre-kindergarten to eighth grade; guidance in developing effective techniques and procedures for their implementation through singing, intelligent listening, music, reading and creative work. Laboratory experiences provided in addition to class meeting times. Observation hours required.

**MUSC 4438 - Secondary Choral Methods ...........3.00 Credits** Study of materials and methods for teaching choral curricular in the middle and senior high school choral classroom: planning and managing choral rehearsals and performances at the secondary level. O Observation hours required.

*Prerequisite: MUSC 4436*

**MUSC 4439 - Secondary Band Methods ..............3.00 Credits**

Study of materials and methods of teaching instrumental music in the middle and high school band setting: planning and managing band rehearsals and performances at the secondary level. Observation hours required.

**MUSC 4441 - Applied Clarinet .............................2.00 Credits** Senior level applied clarinet continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3442*.

**MUSC 4441E - Applied Clarinet............................1.00 Credits** Applied lesson for music education majors. All senior level requirements apply.

*Prerequisite: MUSC 3442E*

**MUSC 4442 - Applied Clarinet .............................2.00 Credits** Senior level applied clarinet continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4441.*

**MUSC 4442E - Applied Clarinet...........................2.00 Credits** Senior level applied clarinet continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4441E.*

**MUSC 4443 - Applied Oboe ..................................2.00 Credits**

Senior level applied oboe continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3444.*

**MUSC 4443E - Applied Oboe ................................1.00 Credits**

Senior level applied oboe continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history. *Prerequisite: MUSC 44 3444E*

**MUSC 4444 - Applied Oboe ..................................2.00 Credits**

Senior level applied oboe continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history. *Prerequisite: MUSC 4443.*

**MUSC 4444E - Applied Oboe ................................1.00 Credits**

Senior level applied oboe continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history. *Prerequisite: MUSC 4443E.*

**MUSC 4445 - Applied Flute...................................2.00 Credits** Senior level applied flute. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3446.*

**MUSC 4445E - Applied Flute .................................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite(s): US C and MUSC 3446E*

**MUSC 4446 - Applied Flute...................................2.00 Credits** Senior level applied flute. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4445.*

**MUSC 4446E - Applied Flute .................................1.00 Credits** Senior level applied flute continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4445E.*

**MUSC 4447 - Applied Bassoon..............................2.00 Credits**

Senior level applied bassoon continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3448.*

**MUSC 4447E - Applied Bassoon ........................... 1.00 Credits**

Senior level applied bassoon continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3448E.*

**MUSC 4448 - Applied Bassoon..............................2.00 Credits**

Senior level applied bassoon continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4445.*

**MUSC 4448E - Applied Bassoon ........................... 1.00 Credits**

Senior level applied bassoon continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4447E.*

**MUSC 4471 - Applied Saxophone .........................2.00 Credits** Senior level applied saxophone. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3472*

**MUSC 4471E - Applied Saxophone .......................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: MUSC 3472E*

**MUSC 4472 - Applied Saxophone .........................2.00 Credits** Senior level applied saxophone. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

**Course**

**Descriptions**

*Prerequisite: MUSC 4471.*

**MUSC 4472E - Applied Saxophone .......................1.00 Credits**

Senior level applied lessons for music education majors.

*Prerequisite: MUSC 4471E*

**MUSC 4511 - Applied Trumpet .............................2.00 Credits** Senior level applied trumpet. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3512.*

**MUSC 4511E - Applied Trumpet ...........................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite: 3512E*

**MUSC 4512 - Applied Trumpet.............................2.00 Credits** Senior level applied trumpet. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4411.*

**MUSC 4512E - Applied Trumpet.............................1.00 Credit** Senior level applied lessons for music education majors.

*Prerequisite: MUSC 4511E.*

**MUSC 4541 - Applied Trombone ..........................2.00 Credits** Senior level applied trombone. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3542.*

**MUSC 4541E - Applied Trombone ........................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: MUSC 3542E*

**MUSC 4542 - Applied Trombone ..........................2.00 Credits** Senior level applied trombone. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4541.*

**MUSC 4542E - Applied Trombone ........................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: MUSC 4541E.*

**MUSC 4581 - Brass Ensemble...............................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency.

**MUSC 4582 - Brass Ensemble...............................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency.

**MUSC 4611 - Applied Percussion .........................2.00 Credits** Senior level applied percussion. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3612.*

**MUSC 4611E - Applied Percussion ........................1.00 Credits** Senior level applied lessons for music education majors.

**Course**

**Descriptions**

*Prerequisite: MUSC 3612E*

**MUSC 4612 - Applied Percussion .........................2.00 Credits** Senior level applied percussion. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4611*

**MUSC 4612E - Applied Percussion........................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: MUSC 4611E*

**MUSC 4641 - Applied Baritone Horn...................2.00 Credits**

Senior level applied baritone horn Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3642.*

as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3641, 3642.*

**MUSC 4641E - Applied Baritone Horn .................1.00 Credits**

Senior level applied lessons for music education majors.

*Prerequisite: MUSC 3642E*

**MUSC 4642 - Applied Baritone Horn...................2.00 Credits** Senior level applied baritone horn. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4641.*

**MUSC 4642E - Applied Baritone Horn .................1.00 Credits**

Senior level applied lessons for music education majors. *Prerequisite: MUSC 4641E.*

**MUSC 4681 - Percussion Ensemble ......................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency.

**MUSC 4682 - Percussion Ensemble ......................1.00 Credits** Open only to senior level players for credit. Open without credit to others having the necessary proficiency.

**MUSC 4711 - Applied French Horn......................2.00 Credits** Senior level applied French horn. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3712.*

**MUSC 4711E - Applied French Horn ....................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite(s): MUSC MUSC 3712E*

**MUSC 4712 - Applied French Horn .....................2.00 Credits** Senior level applied French horn. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4711*

**MUSC 4712E - Applied French Horn....................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite: MUSC 4711E*

**MUSC 4741 - Applied Tuba ...................................2.00 Credits** Senior level applied tuba. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3742.*

**MUSC 4741E - Applied Tuba .................................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite: MUSC 3742E.*

**MUSC 4742 - Applied Tuba ...................................2.00 Credits** Senior level applied tuba. Continuation of technical training, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4741.*

**MUSC 4742E - Applied Tuba .................................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite: MUSC* 4741E.

**MUSC 4811 - Applied Organ.................................2.00 Credits** Senior level applied organ. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 3812.*

**MUSC 4811E - Applied Organ ...............................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite(s): MUSC 3812E C*

**MUSC 4812 - Applied Organ ................................2.00 Credits** Senior level applied organ. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4811.*

**MUSC 4812E - Applied Organ ...............................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: 4811E*

**MUSC 4911 - Applied Guitar ................................2.00 Credits** Senior level applied guitar. Continuation of technical study as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: 3912, .*

**MUSC 4911E - Applied Guitar...............................1.00 Credits** Senior level applied lessons for music education majors. *Prerequisite: MUSC 3912E*

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**MUSC 4912 - Applied Guitar ................................2.00 Credits** Senior level applied guitar. Continuation of technical study, as well as development of a broad repertory of literature selected from all periods of music history.

*Prerequisite: MUSC 4911.*

**MUSC 4912E - Applied Guitar ..............................1.00 Credits** Senior level applied lessons for music education majors.

*Prerequisite: MUSC* 4911E.

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**Nursing and COHP Courses**

**COHP 1231 - Orient Seminar on Nursing/**

**Health Care(Elective)..................................................1.00 Credit**

This course introduces nursing and health care history and theoretical framework, including Albany State University's nursing framework. Various theories of nursing and health care are explored. The role of The health care professional including the nurse is analyzed. Proficiencies supporting the role of the health care professionals are explored and adopted.

**COHP 2110 - Nutrition .............................3.00 Credits** This course includes normal nutrition across the life span, as well as diet therapy and nutritional feedings.

*Pre-Requisites: Admission to the Department of Nursing*

**COHP 2120 - Growth & Develop/Health Prof .....3.00 Credits** The purpose of this course is to introduce the student to the developmental needs of the highly complex individual and family during the entire lifespan - from birth to death. The focus is on the physical, emotional, cognitive, social and spiritual dimensions of the developing person. These dimensions will be explored in the context of the family and community settings. Integration of health promotion, risk reduction, and anticipatory guidance during the lifespan will be emphasized.

**NURS 2112 - Foundations of Prof. Nursing ....... 3.00 Credits** This elective course is designed to serve as a prelude to NURS 2231 or for the student who will not meet nursing admission requirements by the beginning of the Fall Semester of his/her sophomore year. Learning opportunities will facilitate development of skills in critical thinking and health promotion interventions. The student will develop beginning proficiency in the performance of basic nursing skills, primarily in campus labs through independent and guided laboratory experiences. Course content includes theoretical and clinical knowledge necessary for certification as a nursing assistant and as a beginning professional nursing student.

*Approval by Chair; Co- Requisites: Core Courses*

**NURS 2121 - Foundations of Path physiology ....3.00 Credits** This elective course is designed to serve as a prelude to NURS3320: Path physiology for the student who wishes more preparation prior to entering the Nursing Program. The course examines the underlying biological process involved in the development, evolution, manifestations and complications of common alterations in health status across the life span, and compares normal and abnormal states. The biological basis for therapeutic actions is examined.

*Approval by Chair, Co-Requisites: Core Courses*

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**NURS 2210 - Pharmacology ..................................3.00 Credits** This course introduces the student to pharmacological concepts and measurements and includes such topics as medication pharmacokinetics dosage, calculations, medication interaction with drugs or foods, medication administration and intravenous therapy. *Co-Requisite: NURS 2331*

**NURS 2212 - Foundation of Health Assess .....3.00 Credits**

The elective course is designed to serve as a prelude to NURS 2510: Health Assessment for the student who wishes more preparation prior to entering the Nursing Program. The course promotes the

development of basic assessment skills across the life span and requires successful performance of selected techniques frequently used in a head-to-toe physical assessment.

*Approval by Chair; Co-Requisites: Core Courses*

**NURS 2231 - Fundamental Concepts of Prof Nursing ............5.00 Credits**

This course is designed to provide further exploration of the theoretical framework and major conceptual threads of the nursing curriculum. The student applies the concept of person, health, environment and nursing along with ethical/legal aspects to lab and clinical practice. Emphasis will be placed on assessment and primary interventions related to health promotion, health maintenance and disease prevention.

*Pre-Requisite: Admission to the Department of Nursing*

**NURS 2331 - Adult Health Nursing I ...................5.00 Credits**

course emphasizes the responses of individuals experiencing physical and emotional illnesses with emphasis on the nurse's role in health restoration, maintenance and promotion. This course incorporates clinical decision making in a variety of health care settings.

*Pre-Requisite: Admission to the Department of Nursing.*

**NURS 2600 - Health & Medical** **Terminology………………..………3.00 Credits**

This online course is specifically designed to improve students’ vocabulary skills; prepare them for advanced professional courses by incorporating content taught in advanced medical and scientific courses; prepare students with the word part and compound term memorization, repetition and reinforcement needed to assure mastery of the unique “Language of Medicine”; and provide students with an opportunity to study and replay the audio-visual online lectures and complete self-testing activities at a convenient time and place.

**NURS 2601 - Introduction to Geriatric Nursing………………………….3.00 Credits**

This course is designed to enhance the knowledge of nursing students regarding nursing care of the aged client. It may be taught online or face-to-face.

**NURS 3010 - Jr. Nursing Externship ...................3.00 Credits** This junior year co-op elective provides the student an opportunity for "hands-on" work experience in the clinical setting under the direct mentorship of a professional registered nurse at an approved health care agency. Working in a one-to-one, mentor to student relationship, the student will gain an understanding of the basic role of the professional RN. Students will increase their skills in providing activities of daily living (ADL) for the hospitalized client. It will further strengthen the critical thinking skills of students involved in the nurse clinician role.

*Pre-Requisite: Meets designated eligibility.*

**NURS 3134 - Pediatric Nursing.............................5.00 Credits** This course examines the responses of children and their families to selected acute and chronic physical deviations in health with emphasis on the nurse’s role in health restoration, maintenance, and promotion.

**NURS 3136 - Women's Health Nursing ................5.00Credits** This course covers nursing theories and skills related to health promotion and health maintenance of childbearing women and selected women's health concerns.

*Co-Requisite: NURS 3335*

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**NURS 3312 - Orient/Phil Concepts/Nursing ........5.00 Credits** This course, open to R.N.s and selected transfer students, is an orientation to concepts of nursing. Selected nursing and other related theories are utilized to enhance the student's knowledge.

*Pre-Requisites: Admission to the Department of Nursing.*

**NURS 3320 - Pathophysiology................................................3.00 Credits**

A survey of the fundamentals of pathology with emphasis on anatomical, physiological and clinical process across the life span. The course examines the underlying biological process involved in the development, evolution, manifestations and complications of common alterations in health status across the life span and compares normal and abnormal states. The biological basis for therapeutic actions is examined. This course is open to natural science majors.

**NURS 3335 - Mental Health Nursing ...................5.00 Credits** This course is an introduction to the application of nursing concepts and principles in the maintenance and promotion of emotional and mental health of individuals, families, groups and populations.

*Co-Requisite: NURS 3136*

**NURS 3510 - Health Assessment ...........................3.00 Credits** This course promotes the development of assessment skills across the life span and requires successful performance of a complete physical examination.

*Co-Requisites: NURS 2210, 2320, 2331.*

**NURS 4010 - Sr. Nursing Externship...................3.00 Credits** This senior year elective course is a continuation of the first externship experience. It provides the students an opportunity to interact with more than one hospitalized client along with more complex clinical challenges. The experience occurs in the clinical setting under the mentorship of a professional registered nurse at an approved health care agency. The student will also have opportunities to interact with a more experienced health care team.

*Pre-Requisite: Approval of Department Chair*

**NURS 4111 - Directed Study ...................1.00 TO 5.00 Credits**

An elective, this course requires student investigation of a nursing problem under faculty supervision.

*Pre-Requisite: Senior status or Department approval.*

**NURS 4131 - Research ...........................................3.00 Credits**

An introduction to the research process in nursing and health care as a basis for utilization in clinical decision making.

*Pre-Requisites: Admission to the Department of Nursing or Department approval.*

**NURS 4140 - Principles of Leadership/Mgmt......2.00 Credits** This is a course in leadership, management, and organizational theories. Additionally, this course integrates nursing and related theories through simulated clinical learning activities.

**NURS 4240 - Community Health Nursing ...........5.00 Credits** This course includes the application of community health nursing principles in the care of vulnerable populations.

**NURS 4342 - Adult Health Nursing II ..................5.00 Credits** This course is designed for Senior nursing students and emphasizes assessment and primary interventions related to health promotion, health maintenance and disease prevention. Clinical practice allows utilization of leadership and management skills in preparation for the role of a professional nurse. This is a clinical practicum which must be taken concomitantly with NURS 4140 which allows the students an opportunity to apply leadership principles and management skills in a variety of work/health care environments. Students develop individual goals and objectives for clinical experiences which serve to establish a base for content reviews during planned seminars.

*Co-Requisites: Electives.*

**NURS 4344 - Senior Seminar ................................3.00 Credits** This course is designed to assist the RN student to successfully complete the Departmental requirements prior to graduation by providing an in-depth review of all upper level nursing courses.

**NURS 4345 - Senior Comprehensive Nursing ......................5.00 Credits**

This course is designed to strengthen the senior nursing student with an in-depth critique and assessment of basic nursing content including multi-system disorders, along with ensuring an appropriate laboratory support environment for the student’s practice and role acquisition.

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The course focus strengthens the student’s ability to successfully meet licensure requirements for professional nursing practice shortly following graduation.

**NURS 4346 - RN-MSN Seminar …..2.00 Credits** This course is designed to strengthen the student's ability to successfully meet RN-MSN Department requirements prior to beginning graduate nursing courses in pursuit of the MSN degree as either a nurse educator or a family nursing practitioner.

**NURS 4413 - RN-MSN Transition .......6.00 Credits** This online course examines nursing history, trends, and conceptual framework, including Albany State University's nursing framework. Students examine teaching and learning concepts. The evolving role of the advanced practice nurse is analyzed and evaluated. The course examines the leadership, management, and organizational theories, including nursing theories that utilize leadership and management concepts. Students plan assignments and leadership/management actions through simulated clinical learning activities.

**Philosophy**

**PHIL 2101** - Introduction to Philosophy ..................**3.00 Credits**

A survey of the fundamentals of philosophy. Consideration given to the validity, knowledge and truth claims, the nature of ultimate reality, the nature of moral and ethical judgments, the just society, the meaning of life as well as philosophical methodology.

**Physical Education**

**PEDH 1001 - Team Sports I...................................1.00 Credits** Basic skills are provided in the sports of basketball and volleyball. Cardiovascular conditioning is stressed.

**PEDH 1002 - Fitness...............................................1.00 Credits** Involves activities and exercises to promote wellness and fitness for life. Activities will include aerobic and anaerobic exercises including weightlifting, walking, step aerobics and other appropriate activities.

**PEDH 1003 - Recreational Skills...........................1.00 Credits** This course is designed as an introductory course involving basic skills in the activities of bowling and square dance.

**PEDH 1004 - Recreational Skills II ......................1.00 Credits** This course is designed as an introductory course involving basic skills in the activities of golf and tennis.

**PEDH 1005 - Lifetime Skills I ...............................1.00 Credits** This course is designed as an introductory course in outdoor recreational skills inclusive of archery, team skill building concepts and other recreational activities.

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**PEDH 1006 - Lifetime Skills II..............................1.00 Credits** This course is designed as an introductory course involving basic skills in badminton and stunts and tumbling’s.

**PEDH 1007 - Aquatics............................................1.00 Credits** This course is designed for the non-swimmer and novice. The course will address basic swimming techniques, safety and aqua aerobics. Emphasis is placed on improving overall cardiovascular efficiency and acquiring survival skills.

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**PEDH 1008 - Progressive Resistance Exercise.....1.00 Credits**

A planned fitness training program to increase muscular strength and tone through a planned progressive series of exercises performed on the weight machine and other apparatus.

**PEDH 1010 - Intro to Yoga ....................................1.00 Credits** Designed to introduce students to basic yoga postures and to develop an understanding of the benefits of this ancient practice.

**PEDH 1020 - Intermediate Swimming .................1.00 Credits** This course is designed for the swimmer. The course will address swimming techniques and safety. Emphasis is placed on improving overall cardiovascular efficiency and acquiring survival skills. *Prerequisite: PEDH 1007*

**PEDH 1150 - Life Guarding ..................................1.00 Credits** Stresses water safety and is designed to provide the student with the knowledge and skills to save his own life or another in the event of an emergency. Course completion may lead to Red Cross Certification in lifeguarding. Prerequisite: Swimming Proficiency Test.

*Prerequisite: PEDH 1020*

**PEDH 1160 - Water Safety Instructor ..................2.00 Credits** Instructional concepts in swimming are provided leading to American Red Cross Certification. Instructor's approval based on American Red Cross prerequisite.

*Prerequisite: PEDH 1150*

**PEDH 1170 - Lifeguard Instructor .......................2.00 Credits** Instructional concepts in teaching lifeguard. Grading is provided to ARC Certification, Prerequisite: Instructor's approval based on American Red Cross.

*Prerequisite: PEDH 1160*

**PEDH 2010 - Intermediate Yoga ...........................1.00 Credits**

*Prerequisite(s): PEDH 1010 US D*

**PEDH 2210 - Gymnastics.......................................1.00 Credits** Graded apparatus events, emphasizing the side horse, parallel bar, horizontal bar and the steel rings.

**PEDH 2213 - Intro & Principle of Phys Ed .........3.00 Credits** Designed to acquaint the student with the history and underlying principles and foundations of contemporary physical education and the contributions of physical education to organic, neuromuscular, interpretive and emotional development.

**PEDH 2214 - Games of Low**

**Organization.................................................00 OR 2.00 Credits**

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A study of activities based on the needs, interests and all age groups, emphasizing trust building activities, games, stunts, relays, and rhythmic activities for playground, schools, and recreational areas and methods used in their presentation.

**PEDH 2221 - Intermediate Tennis ........................1.00 Credits** Designed for the student who has acquired the basic skills and strategy of tennis and designed to improve his/her tennis game.

**PEDH 2232 - Social Dances ...................................1.00 Credits**

An introduction to the various forms of ballroom dancing and dance etiquette. Investigation of the principles of body control and specific dance techniques, choreography, musical instruments

of accompaniment and recital production.

**PEDH 2272 - Fund/Coaching &**

**Off Football/Soccer..................................................2.00 Credits** Fundamentals of teaching individual and team play, knowledge of offensive plays, most frequently used defenses and coaching strategies. Includes officiating.

**PEDH 276 - Fund/Coach & Official Basketball/Volleyball ...............................................3.00 Credits** Prerequisite(s): Fundamentals of teaching individual and team play, basic offensive patterns against selected defense, basic defense alignments against selected offensive patterns, coaching strategies, principles and procedures of organization and managing meets. Includes officiating.

**PEDH 2280 - Software in HPE ..............................2.00 Credits** Software application in physical fitness, health, reference material, body composition analysis, tests and measurements, human performance and sports/team statistics.

*Prerequisite: EDUC 2210.*

**PEDH 2289 - Care & Prevention/**

**Athlete Injury...........................................................2.00 Credits** Injury prevention is stressed as well as the use of proper equipment to protect vital parts and the use of wraps, tapes and bandages for weak joints and other injured body parts.

*Prerequisite: HEDP 2267 and HEDP 2450*

**PEDH 2319 - Fund/Teaching &**

**Officiate/Baseball & Softball ..................................2.00 Credits** Stresses fundamentals of teaching the basic skills in baseball: pitching, catching, batting, base running, infield and outfield plays, offensive and defensive strategy, organization and management. Includes officiating.

**PEDH 2377 - Fund/Coach &**

**Officiate Track & Field ...........................................3.00 Credits** Fundamental procedure in conditioning and training for track and field events; a basic understanding of the individual basic skills for each event; coaching strategies, principles and procedures of organizing and managing meets.

**PEDH 3350 - History & Survey/**

**Black American Sports............................................3.00 Credits** Study of the contribution of Black Americans to the development of sports and athletics.

**PEDH 3384 - Adapted Physical Ed**

**& Div in Classroom .................................................3.00 Credits** Consideration is given to the various forms of physical activities whereby full services can be rendered to individuals who, because of physical and mental disabilities, are unable to participate in regular activities. Laboratory experiences are included.

**PEDH 3394 - Theory/Psychology of Coaching ....3.00 Credits** Basic theories, principles and psychology of coaching sports and athletics.

**PEDH 4460 - Kinesiology.......................................3.00 Credits** Concerned with an analysis of human motion and the mechanical principles related to movement. Concentrated attention is given to the muscles which move individual joints. Laboratory demonstrations are conducted.

*Prerequisite: BIOL 2411, BIOL 2412 and PEDH 4470*

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**PEDH 4470 - Physiology of Exercise ....................3.00 Credits** Study of the effects of physical activities on the human organism and applied physiology. Laboratory demonstrations are conducted. *Prerequisite: BIOL 1111, BIOL 2411 and BIOL 2412*

**PEDH 4480 - Major Seminar & Practice .............1.00 Credits** Organization and management of class instruction and group supervision. The student gains experience through service classes and the laboratory school under the supervision of the teaching staff of the physical education equipment.

**PEDH 4481 - Major Seminar & Practice .............1.00 Credits** Organization and management of class instruction and group supervision. The student gains experience through service classes and the laboratory school under the supervision of the teaching staff of the physical education department.

**PEDH 4482 - Tests & Measurements**

**in Phys Ed.................................................................3.00 Credits** Study of the basic principles of selecting, administering and analyzing tests in physical education. Emphasis is also placed on constructing knowledge and skill tests and quantitative methods of marking in physical education.

*Prerequisite: MATH 1101, MATH 1111 or MATH 1113*

**PEDH 4490 - Org & Administration of**

**Health & Phys Ed ....................................................3.00 Credits** Effective procedure in instruction, organization, administration and supervision of physical education in relation to the whole school program.

**Physics**

**PHYS 1001K - Physical Science I ...............00 OR 4.00 Credits** This course is designed for non-science majors, and covers fundamental principles of physics, survey of astronomy, including topics on basic mechanics, heat, waves, sound, light, electricity and magnetism, universal galaxies, stars and planets. (non-science majors)

**PHYS 1002K - Physical Science II ............00 OR 4.00 Credits** This course covers the fundamental principles and description of atomic structure, elements, compounds, formula, equations, organic chemistry, nuclear reactions, rocks, minerals, geological cycle, weather and climate. (non-science majors)

**PHYS 1003K - Earth & Space Science ......00 OR 4.00 Credits** This course covers the fundamentals of earth and space sciences including the universe, solar system, the earth, rocks, minerals, geological cycle, weather and climate. (non-science majors)

*Co-requisite(s): PHYS 1003*

**PHYS 1010 - Physics Appreciation .......................3.00 Credits** This course covers surveys the development of physics from Newton to the present day and its technological impact on modern society. (non-science major)

**PHYS 1020 - Survey of Modern**

**Science & Tech .............................................00 OR 3.00 Credits**

A multimedia course that surveys the advances of modern technology inspired by the physical sciences, the inter- relationships between various science and non-science disciplines and reviews the impact of physics on their study.

**PHYS 1110K - Honors Physical Science ....00 OR 4.00 Credits** This course covers fundamental principles of physics including topics on basic mechanics, heat, waves, sound, light, electricity and magnetism and selected topics in nuclear physics. (non-science majors)

**PHYS 1111K - Introductory Physics I........00 OR 4.00 Credits** This is an introductory course in physics for science majors. Trigonometry is frequently used. it covers mechanics, heat, Thermodynamics, vibrations and waves.

*Prerequisite(s): MATH 1113*

**PHYS 1112K - Introductory Physics II ......00 OR 4.00 Credits** The second part of the introductory physics course covers electricity, magnetism, electromagnetic induction, Ohm’s law, Kirchhoff’s law, electromagnetic theory, waves, light, sound and fundamentals of modern physics.

*Prerequisite(s): (PHYS 1111K US D or PHYS 1111 US D)*

**2100 - Computer Applications ...................00 OR 3.00 Credits** This course is designed to give students the necessary computer skills in using spreadsheets, word processors, data-base applications, graphics and other scientific software that facilitate learning, data analysis and simulation. (For science majors)

**PHYS 2120 - Applied Math for Sciences I............2.00 Credits** The fundamental mathematical concepts and tools needed in the study and application of scientific principles and laboratory practices are covered in this course.

**PHYS 2121 - Applied Math for Sciences II ..........2.00 Credits**

A course in advanced mathematical concepts and tools needed in the study and application of scientific principles and laboratory practices.

*Prerequisite: PHYS 2120.*

**PHYS 2221K - Principles of Physics I........00 OR 4.00 Credits**

An introductory course in calculus-based physics for science and engineering majors; it covers topics on motion, force, work, energy, heat, thermodynamics and electricity.

*Prerequisite(s): (MATH 1211 US D or MTH 231 UG D or MTH 232*

*UG D)*

**PHYS 2222K - Principles of Physics II ......00 OR 4.00 Credits**

An introductory course in calculus-based physics for science and engineering majors; it covers topics on electromagnetic theory, waves, light and sound.

*Prerequisite(s): ( PHYS 2221K US D or PHYS 2221 US D )*

**PHYS 2223K - Principles of Physics III ....00 OR 4.00 Credits**

An introductory course in calculus-based physics for science and engineering majors; it covers selected topics in quantum and modern physics including atomic structure.

*Prerequisite(s): (PHYS 2222K US D or PHYS 2222 US D )*

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**PHYS 3001 - Advanced Concepts in Physics .......4.00 Credits** This course is designed for the middle grades science teachers and covers the physics portion of the Science curriculum. The following topics will be covered: heat, waves, sound, light, motion, force, energy, electricity and magnetism. The lab includes demonstrations that may be utilized in explaining physics principles.

*Prerequisite: PHYS 1001.*

**PHYS 3002 - Adv Earth and Space Science .........4.00 Credits**

A study of the earth and its connection to other celestial bodies. Theories about information of the solar system and the universe will be explored. Earth resources and forces that shape the earth will be explored. Earth's atmosphere and weather elements will be studied. The lab gives experiences which will include techniques for identifying minerals, rocks, fossils, and course technology in simulating and predicting weather.

**PHYS 3111 - Mechanics I.......................................3.00 Credits**

A course that covers elements of coplanar statics of particles and rigid bodies and analysis of forces on structures and beams. Prerequisite(s): ( PHYS 2221K US D or PHYS 2221 US D )

**PHYS 3112 - Mechanics II .....................................3.00 Credits**

A course that covers the study of one-, two- and three dimensional motion of particles and rigid body motion.

*Prerequisite: PHYS 3111.*

**PHYS 3220 - Thermodynamics .............................3.00 Credits** This course involves the study of the principles and concepts of heat and thermodynamics including thermal equilibrium, reversible and non-reversible processes and heat engines.

*Prerequisite(s): (PHYS 2221K US D or PHYS 2221 US D )*

**PHYS 3311 - Electricity/Magnetism I...................3.00 Credits**

An intermediate level course covering electrostatics, electric and magnetic fields and forces, electromagnetic induction, AC and DC circuits.

*Prerequisite(s): ( PHYS 2222K US D or PHYS 2222 US D )*

**PHYS 3312 - Electricity/Magnetism II .................3.00 Credits**

An advanced level course covering magnetic properties of matter, time-variable electric and magnetic fields, Maxwell's equations and their application to the generation and transmission of electromagnetic waves.

*Prerequisite: PHYS 3311.*

**PHYS 4011L - Advanced Laboratory I ......00 OR 3.00 Credits** This course is designed to provide students with laboratory skills in physics; it covers experiments in classical and modern physics including the Frank-Hertz experiment, photo- electric effects, X-rays, optical and microwave spectroscopy.

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**PHYS 4012L - Advanced Laboratory II ....00 OR 3.00 Credits** This course is designed to provide students with laboratory skills in physics; it covers experiments involving electric and electronic circuits including memory and logic circuits and storage devices. *Prerequisite: PHYS 4011L.*

**PHYS 4121 - Modern Physics I**

In this course the student is introduced to the principle and phenomenology of modern physics including special theory of relativity and selected topics in atomic and molecular physics are covered in this course.

*Prerequisite(s): ( PHYS 2222K US D or PHYS 2222 US D )*

**PHYS 4122 - Modern Physics II............................3.00 Credits**

A continuation of PHYS 4121, in which topics involving nuclear structure and radioactivity, and selected topics in quantum and solid state physics are examined.

Prerequisite: PHYS 4121.

**PHYS 4230 - Special Projects ................................3.00 Credits** Independent study and research on a selected top in physics and/or in a related field in which a project report and presentation are required.

**PHYS 4240 - Internship .........................................3.00 Credits** Internship at off-campus sites to provide experience and training in a real-life work environment.

**Political Science**

**POLS 1101 - U.S. and Georgia Government.......3.00 Credits** Introductory course which satisfies the general education requirement in American Government. It also address the state legislative requirement which dictates that students demonstrate proficiency in understanding the constitutions, principles and institutions of the United States and the State of Georgia.

**POLS 2101 - Intro to Political Science .................3.00 Credits**

A survey of different areas of political science, basic concepts and approaches to the study of Political Science, the nature of the state, government and law in society.

*Prerequisite: P0LS 1101*

**POLS 2102 - Introduction to Law.........................3.00 Credits** Introduction to the nature of the law; legal mechanisms and judicial processes underlying American jurisprudence.

*Prerequisite: POLS 2101*

**POLS 3511 - Comparative Government...............3.00 Credits**

Must be enrolled in one of the following Class(s): Junior, Senior

A survey of political structures, institutions, and ideologies of major governmental systems. This course also analyzes the decision-making processes, political conflicts and change, and group interactions. Theories and basic concepts that political scientists use in comparative analysis.

*Prerequisite(s): POLS 1101 and POLS 2101 or permission of instructor.*

**PHYS 4110 - Optics ................................................3.00 Credits**

In this course, wave motion, properties and applications of lenses in optical instruments, interference, diffraction and other optical phenomena and quantum theory of light are investigated.

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**POLS 3601 - State and Local Government ..........3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. A study of the forms and structures of state and local government, the formal and informal political and administrative processes of state legislatures, municipal chambers and judicial bodies. This course also addresses social, community, economic, and political issues that are relevant to both types of governments.

**POLS 3609 - American Foreign Policy .................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. An analysis of the formulation and execution of American Foreign Policy, its purposes and trends. This course covers historical backgrounds, economic and political factors, domestic and international determinants, and major contemporary problems in American Foreign Policy. It also examines the roles of the major institutions such as the presidency, congress, and the media in the policy making process.

*Prerequisite(s): POLS 1101 and POLS 2101 or permission of instructor.*

**POLS 3611 - Urban Politics ...................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Study of urban political processes concentrating on the problems of government and administration of cities, as well as key issues of public policy in the urban arena.

**POLS 3612 - African-American Politics...............3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. This course addresses the historic and contemporary roles that African Americans have played in the American political process from 1865 to the present. Designed to provide a holistic approach, this course explores the impact of slavery, political, social and economic movements, as well as the impact of key leaders in the civil rights movement and landmark legal decisions

*Prerequisite: POLS 1101 or permission of instructor.*

**POLS 3614 - The Presidency .................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Nature and problems of presidential leadership, including the historical evolution of the office, contemporary power, and relationships with other institutions and agencies of government.

**POLS 3616 - Political Parties/Pressure Group ...3.00 Credits** History, organization and functioning of American political parties and pressure groups, with emphasis upon their roles in the formation of public policy.

*Prerequisite(s): ( POLS 1101 or PSC 201 )*

**POLS 3617 - The Legislative Process ...................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Introduces the elements of the legislative process, the role and behavior of lawmaking officials and interest groups with which they interact in the process of making law at the national and state levels.

*Prerequisite: POLS 1101 or permission of instructor.*

**POLS 3618 - Elections & Electoral Behavior ......3.00 Credits** Considers elections, electioneering in the American democratic process and current research on American electoral behavior. *Prerequisite: POLS 1101 or permission of instructor.*

**POLS 3701 - Judicial Process ................................3.00 Credits** Nature of the judicial process in the United States with special emphasis on the functions of the courts and court personnel in the pursuit of justice.

*Prerequisite(s): POLS 1101, POLS 2102 or permission of instructor*

**POLS 3702 - American Constitutional History ...3.00 Credits** Study of judicial interpretation of the Constitution of the United States, through the review of selected decisions of the United States Supreme Court.

*Prerequisite: POLS 1101 (for history and political science majors)*

**POLS 3703 - Constitutional Law I........................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Federal system in Constitutional law. Uses a case by case approach to uncover the meaning and dimension of federalism.

**POLS 3704 - Constitutional Law II ......................3.00 Credits** Focus is on the Constitution and the individual. Treats basic rights of the individual in the Bill of Rights, the 14th, 15th and 19th Amendments, using a case by case approach.

**POLS 3705 - Trial Advocacy..................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. A hands-on participatory course designed to introduce students to the planning, analysis and strategy in presenting civil and criminal litigation at the trial stage.

*Prerequisites: POLS 1101 and POLS 2102 or permission of instructor.*

**POLS 3708 - Civil Rights and Minorities.............3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Constitutional rights as they pertain to minorities in American society, through a case-by-case approach.

**POLS 3813 - Public Administration ...................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Introduction to the basic theories of the administration of the public's business. Prerequisite: POLS 1101 or permission of instructor.

*Prerequisite(s): ( POLS 1101 or PSC 201 )*

**POLS 3815 - Municipal Government .................3.00 Credits** Forms and structures of municipal governments in America and the problems of administering the delivery of services to citizens. *Prerequisite: POLS 1101 and 3601 or permission of instructor.*

**POLS 4371 - Research Methods I .........................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Two- part course provided as enrichment experience for senior level students. Structured to provide enrichment on two levels-extension of methodology for studying political behavior and substantive knowledge about the political system. Particular emphasis will be on the experience of planning and executing research projects. *Prerequisites: POLS 2101, POLS 3301 and SSCI 2402 or permission of instructor.*

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**POLS 4372 - Research Methods II........................3.00 Credits** Two-part course provided as enrichment experience for senior level students. Structured to provide enrichment on two levels- extension of methodology for studying political behavior and substantive knowledge about the political system. Particular emphasis will be on the experience of planning and executing research projects.

*Prerequisites: POLS 2101, POLS 3301 and SSCI 2402 or permission of instructor.*

**POLS 4401 - History of Political Thought ...........3.00 Credits** Must be enrolled in one of the following Class(s): Junior. Senior. This Course explores the philosophies of such men as Plato, Machiavelli, Hobbes, Locke, Marx, and Hegel. Focus will be on the assumptions that each thinker makes about human nature and the vision of a good society that flows from those assumptions. *Prerequisites: POLS 1101 and POLS 2101 or permission of instructor.*

**POLS 4512 - Politics & Institutions**

**in Developing Countries..........................................3.00 Credits** Must be enrolled in one of the following Class(s) Junior, Senior. An examination of the institutions and political processes in developing countries, with an emphasis on the economic, cultural, and political trends in these states. Problems arising in transitions from traditional to modern industrial state will be examined.

*Prerequisites: POLS 1101 and POLS 2101, or permission of instructor.*

**POLS 4513 - Issues in Global Politics...................3.00 Credits** Treats selected current global political issues that impact upon the international community and with which students should be able to live and work in the twenty-first century.

*Prerequisite: P0LS 1101*

**POLS 4514 - International Relations....................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. The historical and analytical study of basic concepts and theories of International Relations, such as realism, idealism, pluralism, and globalism. This course also focuses on the study of the diplomatic, ideological and imperialistic rivalries in the contest for world power.

*Prerequisites: POLS 1101 and POLS 2101 or permission of instructor.*

**POLS 4515 - International Organizations ...........3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. A study of national and international organizations utilized in the conduct and regulation of international transactions and their procedures. Emphasis is placed on a critical survey of the major themes, ideas and trends of international organizations. Special attention will be paid to the United Nations and related organizations.

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*Prerequisite: POLS 1101 and POLS 2101 or permission of instructor.*

**POLS 4619 - Legislative Internship ......................9.00 Credits** Albany State is one of several university system schools to participate in the legislative internship program that allows students to serve as interns with members of the Georgia General Assembly during the legislative session (usually Jan to the 1st of April). Most schools converted to a 9 hour credit (15 hours under the quarter system) during the semester conversion.

*Prerequisites: POLS 1101 and POLS 3617 or permission of*

**POLS 4814 - Theory & Practice**

**of Pub Administration .............................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Study of organizational theory, bureaucratic behavior, administrative structures, process, and planning.

*Prerequisite: POLS 1101 and POLS 3813 or permission of*

*instructor.*

**POLS 4816 - Model United Nations......................3.00 Credits** Designed to provide an orientation to the activities of the United Nations, as well as provide an understanding of the modalities of

international diplomacy.

*Prerequisite: POLS 1101 or permission of instructor.*

**POLS 4817 - Politics of Globalization ..................3.00 Credits** A critical analysis of the trends and contradictions that produce increasing interconnectedness of economics, cultures, and peoples in today's "borderless world."

*Prerequisite: POLS 1101 or permission of instructor.*

**POLS 4818 - Pub Administration Internship ......3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Independent study course utilizing the service-learning experiences as a basis for intensive study of public administration and the political process.

*Prerequisites: POLS 1101 and POLS 3813 or permission of instructor.*

**POLS 4819 - International Political Economy.....3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. This course focuses on the social, political, and economic arrangements affecting the global systems of production, exchange, and distribution of goods and services. The course also seeks to examine the dynamic interactions between market and state, and how they are impacted by ideology, culture, and values.

**POLS 4820 - Area Studies of Africa, Caribbean,**

**Eastern Europe & Latin America ..........................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. This Area Studies course explores the historical, cultural, political, and economic factors that underscore the relations of African states, the Caribbean states, Eastern Europe, and Latin America. The course also examines the systemic obstacles that mitigate against a more sustainable interface of these nation-states as a result of their insertion into the world system.

**POLS 4821 - International Internship/Seminar ..3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. This course deals with experimental education through work-study, field research, and study abroad for students. Participants will work side by side with experienced professionals in the international area.

*Prerequisite: POLS 1101 or permission of instructor*

**POLS 4822 - Politics & Culture**

**of Developing World ................................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. The course will focus on the study of politics and cultures of all developing economies and will be organized around the theme that globalization is accelerating change in developing countries. Students will also be exposed to the theories of dependence and interdependence

*instructor.*

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**POLS 4823 - Int'l Relations of**

**Sub-Saharan Africa .................................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. This course focuses on the relations of sub-Saharan Africa, and other nation-states and non-state actors in the international system. Considerable attention is given to the foreign policies of sub Saharan African states as well as key social, economic, and political issues shaping the international relations of African states.

*Prerequisite: POLS 1101 or permission of instructor*

**POLS 4824 - Political Economy of African**

**and the Caribbean ...................................................3.00 Credits** Must be enrolled in one of the following Class(s): Junior, Senior. Aimed at bridging politics and economics, this course explores the historical evolution of the economics of African and the Caribbean states and the constraints and strategies of economic growth following political independence. The course also provides a critical review of the global economic system with the view to charting a road map to political stability, sustainable economic development, and social equity in that region.

**Psychology**

**PSYC 1001 - Study Management ..........................3.00 Credits**

A survey of study techniques derived from psychological research and learning theory. Its contents include an analysis of student's study behavior, educational attitudes, study concentration, note taking, time management, textbook study, study conditions, scholastic motivation and test-taking skills.

**PSYC 1002 - Basic Skills in**

**Behavioral Science ....................................... 3.00 Credits** Effective communication and critical thinking skills essential to academic and occupational success in the behavioral sciences (Fall-Spring)

**PSYC 1101 - General Psychology..........................3.00 Credits** Introduction to the science of psychology. Major topics including learning, memory, motivation, personality, social behaviors, maturation and development. (Fall- Spring) *Prerequisite: None*

**PSYC 2203 - The Profession of Psychology..........3.00 Credits**

A treatment of systems, psychological measurement, bio- logical bases of behavior, sensation and perception, cognitive processes, verbal learning and new advances in the field. Prerequisite: PSYC

1101 (Fall-Spring-Summer)

*Prerequisite(s): ( PSYC 1101)*

**PSYC 2240 - Psychology of Stress.........................3.00 Credits** Psychology of factors producing stress in one's daily life with attention to their physiological and psychological effects. Much of the course will deal with developing effective techniques for coping with stress. (Fall-Spring)

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 2250 - Sensation and Perception ................3.00 Credits**

An introduction to sensory process and the psychology of perception. Topics include principles of sensation, organization of visual perception, motivation and perception.

*Prerequisite(s): ( PSYC 1101and PSY 2203*

**PSYC 2260 - Humanistic Psychology ...................3.00 Credits**

An introduction to the philosophy of humanism as treated by

Allport, Rogers, Fromm, Maslow and others.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 2270 - Psychology of Ethics ........................3.00 Credits** Special attention to the ethics of behavioral control, punishment and reward systems; the use of testing and psychological technology in such areas as advertising, propaganda and brainwashing. *Prerequisite(s): ( PSYC 1101 and PSYC 2203)*

**PSYC 2275 - Interviewing Practicum ....... 3.00 Credits** This course provides an opportunity for student to acquire skills necessary for effective interviews with people seeking help. Extensive use is made of role plays by student which are videotaped and replayed for analysis. Course gives attention to interviewing families, as well as, individuals, securing needed information, handling racial difficulties, handling anger, and handling client requests.(Fall-Spring).

*Prerequisites PSYC 1101 PSYC 2303 and PSYC 2270*

**PSYC 2280 - Psychology of Women ......................3.00 Credits** The changing role of women with specific attention to economic, social and emotional independence goals of women; adjustment to new status by women and ways of the public on the role of the "new woman."

*Prerequisite(s): ( PSYC 1101 and PSY 2203 )*

**PSYC 2282 - Hum Behavior**

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**& the Environment ...................................... 3.00 Credits** Examines the ecological approach to human behavior, enabling the student to identify the stages and characteristics of normal human growth and development within the context of the social environment. Covered is psycho-social development from before birth to old age, the impact of environment, family functioning and group functioning.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 2290 - Found of Learning & Motivation ...3.00 Credits** Examines the critical impact of experience on human thought and behavior. Emphasis is placed on the process and principles which have been shown to underlie human learning, memory, and motivation. Social warning and cognitive approaches are discussed

as well as behavioral approaches.

**PSYC 2295 - Psychology of Adjustment ...............3.00 Credits** Focus on adjustment and personal growth. Topics include adjustment problems and psychotherapy, stress and defense coping, assertive and self-directed behaviors.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203)*

**PSYC 2296 - Psychology of Human Sexuality .....3.00 Credits** Surveys the numerous psychological, social, and cultural factors affecting human sexual behavior. Topics include values and sexual decision-making, sexual anatomy and physiology, research methods, sexual diversity, sex education, reproduction, sexually transmitted diseases, sexual disorders and therapeutic techniques. *Prerequisite(s): ( PSYC 1101 and PSYC 2203*

**PSYC 3000 - Industrial Psychology ......................3.00 Credits**

A course designed to acquaint the student with the application of psychological principles of human interaction in industrial and business settings, personnel selection, job evaluation, advertising and other business-management areas.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3001 - Child Psychology..............................3.00 Credits**

A concentration on the emerging self into adolescence. Focus on perceptual-motor, interpersonal and cognitive self systems. Topics include heredity, prenatal, physical, cognitive and emotional development.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3002 - Adolescent Psychology.....................3.00 Credits** The mental, moral, emotional and social development of the adolescent young adult. A critical evaluation of the adolescent's problems, needs, interests and potentials.

*Prerequisite(s): ( PSYC 1101, PSYC 2203 and PSYC 3001)*

**PSYC 3302 - Intro to Exceptional Children.........3.00 Credits**

A course designed to acquaint the student with the trends, etiology, growth and development, characteristics, needs and problems of exceptional children.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203*

**PSYC 3307 - Physiological Psychology.................3.00 Credits**

A course designed to familiarize the students with the physiological bases of behavior, the nervous system, the endocrine system and research techniques in physiological psychology.

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*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3309 - Intro to Psychopharmacology.........3.00 Credits** The roles of psychotropic agents in society and the treatment of mental illness and behavioral disorders regarding psychotropic agents will be examined.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270 and*

*PSYC 3307*

**PSYC 3310 - Drug Physiology/Classification.......3.00 Credits**

\The course examines the principles of drug action and physiology. Drug classification, tolerance, dependence, and models of addiction

will be topics that are emphasized.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270 and PSYC 3307)*

**PSYC 3311 - Substance Abuse & Treatment........3.00 Credits** This course examines substance abuse and dependence, substance intervention techniques, and methods of treatment. Other topics will include impact of substance abuse on the family and the community and an analysis of rehabilitation methods. *Prerequisite(s): ( PSYC 1101, PSYC 2270, PSYC 3309, and PSYC 3310*

**PSYC 3312 - Intro to Group Process ....................3.00 Credits**

A review of the basic group concepts, treatment techniques, and empirical research that supports the clinical and counseling uses of group procedures with client populations. Ethical standards are also reviewed in this course.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3320 - Psychology of Personality................3.00 Credits**

A systematic study of the natural development of personality. Emphasis is placed on empirical findings, concepts and theories derived from experimental and clinical research.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3322 - Abnormal Psychology ......................3.00 Credits**

A study of various areas encompassed within the term "abnormal behavior". Emphasis is placed upon the restrictive milieu of the mentally ill, therapy, techniques and the symptomatology of emotional disturbances.

*Prerequisite(s): ( PSYC 1101 and PSYC 2203 )*

**PSYC 3324 - Culture & Personality Develop.......3.00 Credits**

A study of cultural focuses that influence the development of personality. Topics include socialization, nurture vs. nature, social differentiation, language and geographical variation. *Prerequisite(s): ( PSYC 1101, PSYC 2203, and PSYC 3320)*

**PSYC 3329 - Community Mental Health .............3.00 Credits** This course is designed to emphasize the effects of social systems on human adjustment and functioning. Social planning is considered as a means for promoting positive mental health. Topics include community resources, effective service and delivery and utilization of human services and program evaluation. Observation and "laboratory"/field experiences will be required.

*Prerequisite(s): ( PSYC 1101, PSYC 2270 and PSYC 2203 )*

**PSYC 3340 - Psychology of Religion.....................3.00 Credits**

A course designed to examine the psychological aspect of religion. The topics include the impact of religious attitudes, perception and sensory activities of the individual.

*Prerequisite (PSYC 1101 and PSYC 2203)*

**PSYC 3353 - Counseling the Aged ........................3.00 Credits**

A survey of programs in later life and an overview of related counseling techniques.

*Prerequisite(s): (PSYC 1101, PSYC 2203 and PSYC 2270)*

**PSYC 3370 - Intro to Behavioral Modification ...3.00 Credits** Focuses on the application of operant conditioning and cognitive control techniques to improve behavior in a variety of therapeutic settings and everyday situations. Details on how to implement, use and evaluate various techniques are discussed along with related ethical issues.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, and PSYC 2270)*

**PSYC 3371 - Juvenile Delinquency.......................3.00 Credits** The nature and extent of juvenile delinquency, analysis of patterns and sociological theories of causation, the role of the police and the courts.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270)*

**PSYC 3372 - Psyc and the Black Perspective ......3.00 Credits** Designed to examine the basic principles and theories of psychology as it relates to African Americans and African people. Additionally, the course will explain methodological techniques and develop in the student a critical, questioning attitude toward the interpretation of the results of the defining features and relationships of psychology from an African American and African people perspective to the understanding of human behavior. There is not a prerequisite for this course. This is not an additional course for graduation, nor will this course increase the number of hour for the program but can be used as one of the twenty seven (27) hours in the psychology area.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270)*

**PSYC 3403 - Cross-Cultural Psyc .........................3.00 Credits** Provides a multicultural and global perspective on human development. Its focus is on how culture influences our thoughts and behavior by integrating theoretical and applied components of cross- cultural psychology with traditional and contemporary perspectives in human development across the life span. There is not a prerequisite for this course. This is not an additional course for graduation, nor will this course increase the number of hours for the program but can be used as one of the twenty seven (27) hours in the psychology area.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270)*

**PSYC 4000 - World Psychology**

**and Global Issues .....................................................3.00 Credits** Will introduce students to the field of World Psychology with the attempt to stimulate their minds about different cultures and the impact of psychology in foreign cultures: examining the impact of mental health, psychological stress, life, music, literature and customs. This course will introduce different theoretical approaches to the treatment of mental patients in other countries by allowing students to explore issues and conditions which impact family, and religious and cultural factors in different countries. It will focus on current research perspectives on the effectiveness of psychotherapy and drug therapy as it relates to mental disorders in other countries and legal issues with a global perspective. There is not a prerequisite for this course. This is not an additional course for graduation, nor will this course increase the number of hours for the program but can be uses as one of the twenty seven (27) hours in the psychology area.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270)*

**PSYC 4002 - Mental Health/Global Perspective .3.00 Credits** Course will develop in the student an understanding of the basic principles and theories of Psychology as it relates to cultures. To expose the student to the carious concepts of Psychology and how they differ with regards to cultures. There is not a prerequisite for this course. This is not an additional course for graduation nor will this course increase the number of hours for the program but can be used as one of the twenty seven (27) in the psychology area.

**PSYC 4300 - Behavioral Statistics ........................3.00 Credits**

An introduction to statistical concepts, methods and techniques used in behavioral sciences. Topics include frequency distribution, graphs, measures of central, tendency, variability, standard scores and the normal curve, co relational techniques, hypothesis testing, sampling, theory, and the significance of differences.

*Prerequisite(s): MATH 1111, PSYC 1101, PSYC 2203 and MATH 2411)*

**PSYC 4304 - Behavioral Research ........................3.00 Credits**

An introduction to research procedures used in the behavioral sciences including experimental design, research methodology and scientific writing.

*Prerequisite(s): ( PSYC 4300 )*

**PSYC 4305 - Intro to Experimental Psychology..3.00 Credits** Emphasis placed on the application of experimental methods to the study of psychological phenomena, especially in the areas of learning. Selected laboratory experiments, demonstrations and collateral reading of experiments.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270, PSYC 4300*

*and PSYC 4304 )*

**PSYC 4400 - Health Psychology............................3.00 Credits** The educational, scientific and professional contributions of the discipline of psychology to the promotion and maintenance of mental and physical health.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270 and*

*PSYC 3307)*

**PSYC 4401 - Psychology of Aging .........................3.00 Credits** Examines the psychological aspects of aging with emphasis on the sensory processes, learning, psychomotor performance, mental functioning, motivation, and interactions in health- behavior relations during the latter years of the life cycle.

*Prerequisite(s): ( PSYC 1101, PSYC 2203 PSYC 2270 and*

*PSYC 3320*

**PSYC 4411 - Seminar in Family Dynamics ..........3.00 Credits**

An examination of socio-cultural and sociopsychological forces that influence family. Topics will include mobility aspirations, social stratification, religion, education, and geographical location.

*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270 and*

*PSYC 3320 )*

**PSYC 4421 - Principle of**

**Psychological Testing ...................................00 OR 3.00 Credits** Emphasis on the empirical scientific approach to the construction, standardization, validation and interpretation of psychological tests. Critical examination of the more important types of tests and measurements. Special attention is given to the problems of testing minority groups. Laboratory exercises are required.

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*Prerequisite(s): ( PSYC 1101, PSYC 2203, PSYC 2270 and*

*PSYC 3320 )*

**PSYC 4422 - Diag and Assess Except Child .........3.00 Credits**

A course designed to place emphasis on the identification of exceptional children and the use of formal and informal assessment techniques for initial assessment of individual educational plans. *Prerequisite(s): PSYC 1101, PSYC 2203, PSYC 2270, PSYC 3302 and PSYC 3320)*

**PSYC 4423 - Diag and Assess**

**Ind Difference............................................... 3.00 Credits** Emphasizes the clinical assessment of intelligence, personal and social adjustment. In addition to classroom experiences, students practice administering, scoring, and interpreting a variety of standardized tests. Report writing is also stressed.

*Prerequisite(s): ( PSYC 4421, PSYC 1101,*

*PSYC 2203, PSY 2270 and PSYC 3320)*

**PSYC 4425 - Introduction to Counseling .............3.00 Credits**

An introduction to the principles and techniques of counseling with emphasis on counseling approaches. Major topics include the counselor's role and function, counseling viewpoints and practices, conditions which influence counseling and contemporary issues in counseling.

*Prerequisite(s): ( PSYC 2203 PSYC 1101 PSY 2270)*

**PSYC 4456 - Honors Course in Psychology .........3.00 Credits** Reading in a specialized area of psychology under the direction of an instructor.

*Prerequisite: senior with "B" average and approval of instructor.*

*(Spring).*

**PSYC 4464 - Social Psychology .............................3.00 Credits** Scientific study of the experience and behavior of individuals in relation to other individuals, groups and cultures. View individuals against a background of social forces with emphasis on the relationship between social interaction and the behavior of individuals.

*Prerequisites: PSYC 1101, PSYC 2203, PSYC 2270 and PSYC3320) [Fall-Spring]*

**PSYC 4465 - History and Systems of Psychology3.00 Credits**

A course designed to deal with the systems and historical background of modern psychology with emphasis on the development of scientific and behavioral approaches.

*Prerequisites: PSYC 1101 and PSYC 2203. [Spring]*

**PSYC 4470 - Practicum in Psychology I ... 3.00 Credits**

This course provides an opportunity for students majoring in Psychology to gain practical experience in agency settings. Students must have second semester junior status. Students spend a minimum of 10 hours per week in an agency which must be germane to the student's interest and approved by advisor. Students are expected to defray cost of transportation to and from agencies and other professional expenses incidental to this experience. *Prerequisite(s): ( PSYC 2203, PSYC 2270 and PSYC 4425) [Fall/Spring]*

**PSYC 4471 - Practicum in Psychology II …. 3.00 Credits**

**Course**

**Descriptions**

This course provides an opportunity for students to continue in the agency and take a second practicum in an agency that differs from the one used for Practicum I. Students are expected to defray cost of transportation to and from agencies and other professional expenses incidental to this experience.

*Prerequisites PSYC 2203, PSYC 2270, PSYC 4425 and PSYC 4470 [Fall/Spring]*

**PSYC 4472 - Practicum in Psychology III…. 3.00 Credits** Opportunity for individual therapy cases under the supervision of the student's counselor. Therapy settings will be largely off- campus. Written reports and evaluation of experiences will be *included. Prerequisite: PSYC 4471*

**PSYC 4492 - Independent Study ............... 3.00 Credits** Offers opportunities for students to design and pursue a course of study via contractual arrangements with a sponsoring faculty member. Detailed information and description of requirements can be obtained from the department office. [Fall-Spring]

*Prerequisites: PSYC 1101 and PSYC 2203.*

**PSYC 4499 - Psychological Seminar.....................3.00 Credits** May not be enrolled in one of the following Program(s): Psychology May not be enrolled in one of the following Class(s): Senior. A seminar that will provide a comprehensive review of concepts in all areas of the psychology curriculum in preparation for the Graduate Record Examination. The course is intended only for senior psychology majors.

*Prerequisite: Psychology seniors. [Fall-Spring]*

**Recreation**

**RECD 2012 – Foundation of Recreation ...............3.00 Credits** This course introduces students to the basic physiological, historical and scientific foundations and developments in recreation and leisure; analyzes recreational values as related to other contemporary individuals’ and community needs. Also, provides the functions and settings of organized recreation for special problem areas and explore current trends and issues that affect the recreation movement.

**RECD 2075 - Outdoor Recreation ........................3.00 Credits**

A study of the history, scope and philosophy of outdoor recreation. Emphasis is placed on planning, administering, and evaluating outdoor recreational programs. Also, student will experience various techniques in the study of nature, camp craft, boating, and other activities that are related to outdoor recreation.

**RECD 3045 - Recreational Facility/**

**Equip Design ............................................................3.00 Credits** This course is designed to acquaint the student with various facilities and equipment designs that are related to areas of recreation. Emphasis will be placed on new trends in designing buildings and the development and purchasing of recreation and park sites. *Prerequisite: RECD 2015*

**RECD 4002 - Recreation for the Special Pop.......3.00 Credits** Introduces students to the philosophy, objectives and basic concepts of recreation for the aging and other special population groups. Also, provides a full range of intervention strategies and facilitation techniques that are designed specifically to serve the special population groups. Emphasis is placed on program development, the selection of activities, implementation of the planning, evaluating and documentation process.

*Prerequisite: RECD 2015*

**RECD 4090 - Administration/Supervision of Recreation3.00**

**Credits**

This course is designed to provide a thorough investigation of organization, supervision, and administration policies and practices of governmental, institutional, public and private recreation agencies. Also, provides management and supervisory theories and practices in terms of establishing and maintaining the following: recreational programs, curriculum construction, community relations, physical plant personnel and student relations, and budget planning and policies.

*Prerequisite: RECD 3045 and RECD 4002*

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**RECD 4095 - Recreation Practicum .....................3.00 Credits** Training practicum that includes a total of 105 hours (at least 6 hours per week for 15 consecutive weeks) in a certified recreation or clinical setting in a community environment, treatment center or agency. The student will be trained under the supervision of a full- time licensed recreation professional. Travel and/or professional liability insurance expenses are required. Students must apply to the Health, Physical Education and Recreation Department at least one semester in advance to schedule practicum.

*Prerequisites: RECD 2015, RECD 3045, , RECD4002, RECD 4090.*

**Social Science**

**SSCI 2101 - Introduction to Social Science.....................3 (3-0)**

An interdisciplinary survey of several fields comprising social and behavioral sciences.

**SSCI 2402 - Microcomputers in Social Science ..............3 (3-0)** Introduces social science majors to the practical utilization of microcomputers and selected computer application packages in the social sciences.

**Social Work**

**SOWK 1385 - Careers in Social Work**

**(OPEN ACROSS THE CAMPUS) .........................3.00 Credits** This course focuses on the various roles and functions social workers perform and highlights the dynamisms and vitality of the social work profession. It offers practical information about jobs available in specific service areas; the course will cover the spectrum of social work roles and functions, the nature of social work practice, and best career opportunities for the future. Interdisciplinary relationships, technology and the unique qualities of social work are highlighted.

**SOWK 2211 - Social Policy I (Formerly Social**

**Welfare Policy and Services I) ................................3.00 Credits** This is the introductory course (the first in a two course sequence) to social welfare policies and services. This course is designed to provide a foundation for the program and to help students understand the historical context of the social policies which undergird the delivery of social welfare services.

*Prerequisites: SOWK 2412, SOWK 3443, SOWK 3441,SOWK 2310*

*SOWK 1385, SOWK 3381 Co-requisites: SOWK 3382; SOWK 3442; SOWK 3444*

**SOWK 2310 - Self Awareness ................................3.00 Credits** This course is designed to address self-awareness and effective learning that is necessary to become an effective professional social work practitioners. Further it is to enhance students' development of self and the use of self to empower others in social work practice. The students will examine their designed to help social work students gain awareness and understanding of self as a helping person.

*Prerequisite: Liberal Arts Foundation ; acceptance in Social Work Program & SOWK 1385 Co-requisites: SOWK 3443 ; SOWK 3441; SOWK 3381, SOWK 2412.*

**SOWK 2412 - Introduction to Social Work .........3.00 Credits** This is the second introductory course to the field of Social Welfare and the Social Work Profession. It is a survey of programs and services developed as a response to human needs from both a historical and political perspective. The course provides a foundation

for the Social Work program and helps students comprehend the Social Work Code of Ethics. This course explores a wide range of human problems, intervention strategies and professional practice choices from a generalist perspective. This course also focuses on the problem-solving process for people who are Oppressed, marginalized and/or underserved from a generalist perspective.

*Prerequisite: Liberal Arts Foundation courses; acceptance in Social*

*Work Program & SOWK 1385 Co-requisites: SOWK 3443 ; SOWK*

*3441; SOWK 3381, SOWK 2310.*

**SOWK 3211 - Social Policy II ( was Social**

**Welfare Policy/Service II) .......................................3.00 Credits**

This course is the second in a two-course sequence. It focuses on the policy formulation process and evaluates its components. The interaction and relationship between and among the pluralistic social, political, and economic systems and subsystems of society will be analyzed. Particular attention will be given to the marginalized, oppressed and underserved population of Southwest Georgia. *Prerequisite: SOWK 3382; SOWK 3442; SOWK 2211; SOWK 3444, SOWK 3381; SOWK 2412; SOWK 3443; SOWK 3441; SOWK 2310. Co-Requisite: SOWK 4441; SOWK 4306*

**SOWK 3275 - Forensic Interviewing**

**(OPEN TO CRIMINAL JUSTICE**

**MAJORS WITHOUT PREREQUISITE).............3.00 Credits** This course provides the student with interviewing techniques in forensic social work settings. This course gives a comprehensive overview of courtroom strategy and behavior, the intersection of laws and ethics, civil litigation, peer adjudication, recording and the legal regulation of social work.

*Prerequisites: SOWK 3443; SOWK 3382; SOWK 3441; SOWK 3381; SOWK 3443; SOWK 2310*

**SOWK 3291 - Family/Child Welfare Services .....3.00 Credits** This course is designed to explore aspects of child welfare services. The course gives a brief overview of child welfare services from the early 1800s on and into the present time. It focuses on child welfare issues related to diverse populations who are oppressed, marginalized, as well as the underserved in rural Southwest Georgia.

*Prerequisites: Liberal Arts Foundation Courses, SOWK 3381; SOWK*

*3382; SOWK 2310; SOWK 3443; SOWK 3441*

**SOWK 3353 - Counseling the Aged ....................3.00 Credits**

A survey of problems in later life and an overview of related counseling techniques.

*Prerequisite: Junior status.*

**SOWK 3382 - Human Behavior/Social Environment II**

**...................................................................................3.00 Credits** This second course in the human behavior and the social environment professional foundation sequence is designed to expand the social work student's knowledge of theoretical content of the person-in-environment focus upon which social work bases its practice. An ecological model utilizing a life span approach to understanding individuals as they develop and have membership in families, groups, organizations and communities from middle adulthood to later adulthood is offered as the organizing framework. *Prerequisite: SOWK 3381;SOWK 3441; SOWK 2412; SOWK 2310; SOWK 3381 Co-Requisites: SOWK 2211; SOWK 3442; SOWK 3444*

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**SOWK 3383 - Social Work w/Families**

**(PREVIOUSLY FAMILY DYNAMICS) ...............3.00 Credits** This is a seminar course designed to provide the opportunity seminar participants to analyze the subject of family dynamics as a social issue and to explore policy implications. Using a family system, multi-generational, and developmental framework the seminar will explore challenges faced by contemporary families as they move through the life course. A social systems approach to the family and its diversity will be utilized.

*Prerequisite(s): SOWK 3381; SOWK 3382; SOWK 3443; SOWK*

*3441*

**SOWK 3391 - Issues in International SOWK......3.00 Credits** This course will analyze key economic, political and social issues currently affecting social work in an international context. It will explore the role of social work in addressing these issues both internationally and locally. This course is not a required course, but can be used as a social work elective course. There is not a prerequisite for this course. This is not an additional course for graduation, nor will this course increase the number of hours for the program. Junior Status

**SOWK 3441 - Social Work Practice I ...................3.00 Credits** Social Work Practice I is the first of three practice courses in the core Social Work curriculum, and is an overview of Social Work generalist practice at the micro level of intervention. The course prepares students to engage individuals and families from a holistic view throughout the helping process. The generalist practitioner’s knowledge, values, and skills includes working with individuals and families, as well as understanding the different roles played during the helping process. Interviewing and good listening skills are developed in this course to assist students in providing needed services to individuals who are underserved, marginalized, and oppressed by utilizing and interpreting bio-psycho-social data from various client systems.

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*Prerequisites: Liberal Arts Foundation Courses, SOWK 1385 and acceptance in Social Work Program. Co-requisites: SOWK 3381; SOWK 2412; SOWK 2310; SOWK 3443.*

**SOWK 3442 - Social Work Practice II .................3.00 Credits** Social Work Practice II is designed to introduce the social work student to social work practice at the mezzo level which focuses on effective techniques to utilize when working with groups and families. Students will examine the use of groups in helping individual members solve problem and in helping groups accomplish goals. The classroom will become a laboratory for students to practice and develop additional social work skills. This course builds on the generalist practice techniques students learned in Social Work Practice I. This is a practice oriented course to develop knowledge In group dynamics, group develop, and leadership. The course prepared students to work with diverse population who are oppressed, marginalized, and the underserved in rural Southwest Georgia. *Prerequisites: SOWK 2412, SOWK 3443, SOWK 3441,SOWK 2310*

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*Co-requisites: SOWK 3382; SOWK 2211; SOWK 3444*

**SOWK 3443 - Interviewing & Recording ............3.00 Credits** This course provides foundation knowledge and practice of interviewing and process recording for generalist social work practice. It is organized as an experiential laboratory to build good interviewing and writing skills. Two important components of the course are: interviewing and recording. Essential interviewing skills are analyzed for their appropriate application with different

populations, in particular women, people of color, and different ethnicities, persons with disabilities, and gay and lesbians. The problem solving and solution building model is coupled with a combination of video analyses systems for teaching single skill units of interviewing and a program method text approach for learning interviewing skills.

*Prerequisites: Liberal Arts Foundation Courses, SOWK 1385 and acceptance in Social Work Program. Co-requisites: SOWK 3441; SOWK 2412; SOWK 2310; SOWK 3381.*

**SOWK 3444 - Research Methods I .......................3.00 Credits** This is the first Social Work research course which teaches scientific methods of basic research skills, including definitions, problem solving, interventions and outcomes in measurable terms. Formulation and testing of hypotheses, as well as introduction to SPSS will be included.

*Prerequisites: SOWK 2412, SOWK 3443, SOWK 3441, SOWK 2310*

*SOWK 1385, SOWK 3381. Co-requisites: SOWK 3382; SOWK 2211; SOWK 3442*

**SOWK 4292 - Service Delivery Systems/Aged.....3.00 Credits** This course is designed to provide human service professionals with knowledge regarding resources and services required by the aged. Techniques on how to effectively provide services to the elderly population will be covered in this course. The course focuses on direct service goals for elderly clients, caregivers and family members, with attention to improving service coordination, access, quality and efficiency. Junior Status Required

**SOWK 4306 - Research II: Measurement in SOWK3.00 Credits** This is the second Social Work Research course which provides basic instructions in the use of conceptual and quantitative tools for the description and interpretation of data. This course includes an expansion SPSS

*Prerequisite: SOWK 3382; SOWK 3442; SOWK 2211; SOWK 3444, SOWK 3381; SOWK 2412; SOWK 3443; SOWK 3441; SOWK 2310. Co-Requisite: SOWK 4441; SOWK 3211*

**SOWK 4310 - Global Research .............................3.00 Credits** Prerequisite(s): SOWK 3211 and SOWK 3262 and SOWK 3381 and SOWK 2412. Co-requisite(s): SOWK 4304

**SOWK 4441 - Social Work Practice III................3.00 Credits** This course continues the learning process of Social Work skills thought to be more clearly understood in relationship to selected community interventions, processes, structures and functions. Students should examine strategies for helping

communities to solve problems and for helping communities

accomplish goals. The classroom will become a laboratory for students to practice and develop additional social work skills in comprehending macro practice relationships to micro practice. This is a practice oriented course to develop strategies for community development in three arenas of intervention: communities, organizations, and small groups.

*Prerequisite: SOWK 3382; SOWK 3442; SOWK 2211; SOWK 3444, SOWK 3381; SOWK 2412; SOWK 3443; SOWK 3441; SOWK 2310. Co-Requisite: SOWK 4306; SOWK 3211*

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**SOWK 4450 - Special Topics in Social Work .......3.00 Credits** This course provides an opportunity for senior-level social work students to select from among pre-identified social work topics germane to the mission, goals and objectives of the Social Work Program and which are also of interest to them and a major professor; further, this course fosters the development of scholarly research for presentation on the ASU campus, and at regional, state or national professional conferences and/or meetings. Prerequisite: approval of faculty necessary prior to the course.

**SOWK 4460 - International Social**

**Welfare Policy ..........................................................3.00 Credits** This course will analyze key economic, political, and social issues currently affecting social work in international context. It will explore the role of social work in addressing these issues both internationally and local. This course is not a required course, but can be used as a social work elective course. There is not a prerequisite for this course. This is not an additional course for graduation, nor will this course increase the number of hours for the program. Student must be at the Senior level.

**SOWK 4470 - Field Integrative Seminar .............3.00 Credits** This seminar is designed to provide the student with an opportunity to facilitate the systematic integration of the concepts, methods, policies, skills and values involved in generalist social work practice. It is taken concurrently with the field instruction practicum.

*Prerequisites: SOWK 2310, SOWK 2412, SOWK 2211, SOWK 3441, SOWK 3381, SOWK 3382, SOWK 3211, SOWK 3442, SOWK 3443, SOWK 3444, SOWK 4441, SOWK 4306 Co-prerequisite: SOWK*

*4472*

**SOWK 4472 - 4472 - Field Instruction ..............12.00 Credits** Field is an advanced practice experience designed for application and integration by students using social work principles, methods and skills taught throughout the professional development curriculum. Students must complete 540 clock hours at an assigned agency where a BSW or MSW Is employed. The course provides an opportunity for students to demonstrate the systematic integration of the concepts, methods, policies, skills and values involved in generalist social work practice.

**SOWK 4492 - Service Delivery System**

**& the Aged................................................................3.00 Credits**

A survey of problems in later life and an overview of related counseling techniques.

*Prerequisite: Junior status.*

**Sociology**

**SOCI 2001 - Basic Skills in the**

**Behavioral Science .......................................00 OR 3.00 Credits** Effective communication and critical thinking skills essential to academic occupational success in the behavioral sciences. [Fall- Spring]

**SOCI 2011 - Principles of Sociology......................3.00 Credits**

An introduction to the concepts, assumptions, principles and methods used to study man as a social organism. This course is a prerequisite for further study in sociology. [Fall- Spring]

**SOCI 2013 - Families: Comparative**

**Social Perspective ....................................................3.00 Credits**

Course designed to help students gain an understanding of the differences that prevail between societies with regard to families. Issues addressed include definitions and concepts of the family; different types of global family systems; the interaction of family change and other social, cultural, economic and political change; the relationships between families and other social institutions, the role of gender and age in family relationships; and sources and outcomes of stability, conflict, and dissolution within families. This course provides a broad picture of family organization, examining how social forces have influenced family organization throughout history.

**SOCI 2031 - Intro to Anthropology ......................3.00 Credits**

A survey of the concepts, methods and procedures used to study primitive and non-western cultures. [Fall-Spring]

**SOCI 2271 - Practicum I ............................ 3.00 Credits** This course provides an opportunity for students majoring in social work (SOCI 2271) to gain practical experience in agency settings. It can be taken at any level between sophomore and senior status. Students spend a minimum of 10 hours per week in an agency which must be germane to student interest and approved by advisor.

*Prerequisites: SOCI 2011 and SOCI 2601. [Fall-Spring]*

**SOCI 2272 - Practicum II .......................... 3.00 Credits** This course provides an opportunity for students to continue in the agency and take a second practicum in an agency. Students are expected to defray cost of transportation to and from agencies and other professional expenses incidental to this experience. *Prerequisite: SOCI 2271. [Fall]*

**SOCI 2275 - Interviewing Practicum........ 3.00 Credits** This course provides training in interviewing people who see help in solving problems. Videotapes are made as students practice interviews and these are analyzed. [Spring]

**SOCI 2282 - Social Basis of Human Behavior .....3.00 Credits** This course covers the ecological approach to human behavior. The purpose of this course is to enable the student to identify the stages and characteristics of normal human growth and development within the context of the social environment. Topics include psychosocial development family functioning and group functioning. Observational and laboratory/field experiences required. *Prerequisite: PSYC 1101 [Fall-Spring]*

**SOCI 2290 - Intimacy and Marriage ....................3.00 Credits**

A study of contemporary writings on the dynamics of a two- person relationship, a review of attitudes toward sexuality and current issues regarding love and marriage. [Spring]

**SOCI 2291 - The Sociology of Gender Roles........3.00 Credits**

An examination of traditional sex roles in various organizations, institutions, alternatives to these roles, sexism, and sexuality. [Spring]

**SOCI 2601 - Urban Social Problems ....................3.00 Credits**

An investigation of social dimensions of change, conflict, and disorganization in society, along with an analysis of institutional and deviant behavior patterns.

*Prerequisite: SOCI 2011. [Fall-Spring]*

**SOCI 3001 - Culture/Global Citizenship..............3.00 Credits**

This course is an introduction to the study of culture and global citizenship. It will examine major theoretical perspectives, concepts and issues in sociology and involve students in critical analyses and evaluation of the intersections of global citizenship and different cultures, i.e., education, stratification, religion, age, gender, race/ethnicity, forma; organizations, colonialism, and human movements. Students will also be introduced to comparative research on global citizenship and culture.

**SOCI 3310 - Problems in Marriage**

**and Divorce ..............................................................3.00 Credits**

A survey of norms and behaviors prevailing in marital settings, factors creating tension in marriage and causes for adjustment to divorce.

*Prerequisite: SOCI 2011 [Spring]*

**SOCI 3311 - The Family.........................................3.00 Credits** The study of family as a basic social institution, with emphasis on academic, structural, functional and historical approaches through which the family may be analyzed.

*Prerequisite: SOCI 2011 [Fall]*

**SOCI 3312 - The Black Family..............................3.00 Credits**

An examination of the Black Family in America, with special emphasis on historical development of this family from slavery through the Black Revolution of the '60s.

*Prerequisites: SOCI 3310 or SOCI 3311 [Spring]*

**SOCI 3315 - Cultural Anthropology .....................3.00 Credits** The cultural approach to an understanding of human group life through the study of literate and non-literate societies.

*Prerequisites: SOCI 2031 [Spring]*

**SOCI 3317 - The Culture of Africa .......................3.00 Credits**

A survey of indigenous cultures and societies of Africa, with particular emphasis upon such topics as kinship, politics, economics, religion or sociocultural change.

*Prerequisites: SOCI 2011 and SOCI 2031.[Fall]*

**SOCI 3318 - Comparative Ethnology ...................3.00 Credits**

An intensive study of the culture of selected areas of the world, such as Japan, Philippines, Caribbean and South America. Particular attention will be given to such topics as kinship religion, politics, law and economics.

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*Prerequisites: SOCI 2031 and SOCI 2011.[Spring]*

**SOCI 3319 - Seminar in Afro-American Anthr ...3.00 Credits**

An intensive study of the various aspects of the culture of Black Americans and the relevancy of their contribution to the progress of man. Attention will be given to such topics as Afro-American musical styles, Black American Speech behavior, Black religious cults and sects, and the contemporary Black Revolution.

*Prerequisite: SOCI 2031. [Fall]*

**SOCI 3321 - Population Problems ........................3.00 Credits**

An analysis of the growth, composition, distribution and future trends

of population with particular reference to the United States.

*Prerequisites: SOCI 2601 and SOCI 2011[Spring]*

**SOCI 3322 - Social Institutions .............................3.00 Credits** The development and change of basic social institutions: family, government, economy, education and religion. Also, an analysis of the role of social institutions in creating and sustaining the sociologist.

*Prerequisites: SOCI 2601 and SOCI 2011. [Spring]*

**SOCI 3323 - Social Movements .............................3.00 Credits**

A study of social confrontations and alienation generating social movements, and the impact of movements on the social order. *Prerequisites: SOCI 2601 and SOCI 2011. [Spring]*

**SOCI 3324 - Culture and Personality Dev ...........3.00 Credits**

A study of cultural forces that influence the development of personality. Topics will include socialization, nature vs. nurture, social differentiation, language and geographical variation. *Prerequisites: SOCI 2011 and SOCI 2031. [Fall]*

**SOCI 3329 - Community Mental Health..............3.00 Credits** This course is designed to emphasize the effect of social systems on human adjustment and functioning. Social planning is considered as a means for promoting positive mental health. Topics include community resources, effective service delivery and utilization of human services and program evaluation. Observation and "laboratory" field experiences will be required.

*Prerequisite: PSYC 1101 [Spring]*

**SOCI 3330 - Drug Physiology & Classification ...3.00 Credits** The course examines the principles of drug action and physiology. Drug classification, tolerance, dependence, and models of addiction will be topics that are emphasized.

*Prerequisites: PSYC 1101 or SOCI 2011 [Spring]*

**SOCI 3331 - Substance Abuse & Treatment ........3.00 Credits** This course examines substance abuse and dependence, substance intervention techniques, and methods of treatment. Other topics will include impact of substance abuse on the family and the community and an analysis of rehabilitation methods.

*Prerequisites: PSYC 1101 and SOC 2011 [Fall]*

**SOCI 3340 - Intergroup Relations ........................3.00 Credits**

A study of sociocultural, psychological and ecological factors that influence behavior patterns of racial, ethnic and religious groups in America.

*Prerequisites: SOCI 2601 and SOCI 2011[Spring]*

**SOCI 3341 - Sociology of Education .....................3.00 Credits**

A study of education as a social institution, including school and community relations.

*Prerequisites: SOCI 2601 and SOCI 2011. [Fall]*

**SOCI 3342 - Social Stratification ..........................3.00 Credits**

An analysis of normative techniques for stratifying the human group and the institutionalized inequality engendered by this process. *Prerequisites: SOCI 2011, SOCI 2601 [Spring]*

**SOCI 3350 - Social Gerontology ...........................3.00 Credits**

A survey of cross-cultural views on aging, social implications of aging population, social adjustment to the process of aging, and societal reactions to and provisions for persons in later life.

*Prerequisite: SOCI 2011 [Fall]*

**SOCI 3351 - Social Legislation & the Aged .........3.00 Credits** This course provides an overview of legal issues that are most likely to arise for the elderly and the laws concerning these issues.

*Prerequisites: SOCI 3350 [Fall]*

**SOCI 3352 - Service Del Sys and the Aged...........3.00 Credits**

A survey of types, functions and problems of agencies delivering services for the elderly.

*Prerequisite: SOCI 3350.*

**SOCI 3353 - Counseling and the Aged .................3.00 Credits**

A survey of problems in later life and an overview of related counseling techniques.

*Prerequisite: SOCI 3350 [Spring].*

**SOCI 3354 - Aging & The Social Policy ...............3.00 Credits** This course focuses on societal responses to needs of the elderly with emphasis on the evolution and implementation of laws, initiatives, and elderly services. Special attention will be given to topics that include Social Security, Supplemental Security Income, The Older Americans Act, Medicare, Age Discrimination in Employment Act, Action, The Living Will, Major Health directives, Health Care Reform, and other codes that impact on the welfare of elderly persons.

**SOCI 3360 - Urban Sociology................................3.00 Credits**

A study of the processes and patterns of urban development, along with impact of urbanism of social interaction and societal organization.

*Prerequisites: SOCI 2601 and SOCI 2011. [Fall].*

**SOCI 3361 - Urban Planning ................................3.00 Credits**

An analysis of techniques used in organizing, operating and sustaining the urban machinery.

*Prerequisite: SOCI 3360. [Spring]*

**SOCI 3362 - Political Sociology.............................3.00 Credits**

A survey of major issues and problems in the field of Political Sociology, political power structures, and elitist and pluralist approaches to community power structures.

*Prerequisites: SOCI 2601 and SOCI 2011.*

**SOCI 3363 - Industrial Psychology.......................3.00 Credits**

An overview of the industrial order, including consequences of their division of labor, patterns of differentiation and the relationship between social structures and productivity.

*Prerequisites: SOCI 2601, SOCI 3360, PSYC 1101 and [Fall]*

**SOCI 3364 - Public Opinion &**

**Communication Media............................................3.00 Credits**

An overview of public opinion, nature and development manipulations and a survey of techniques to conduct polls and forecast election results.

*Prerequisites: SOCI 2601 and SOCI 2011. [Spring].*

**SOCI 3365 - Complex Organization .....................3.00 Credits**

A survey of complex organization, types, development and function and the relationship of technology to bureaucracy.

*Prerequisites: SOCI 2601, SOCI 2011. [Fall]*

**SOCI 3366 - Social Change....................................3.00 Credits**

An analysis of theories, processes and implications of recent social changes.

*Prerequisites: SOCI 2601 and SOCI 2011. [Spring]*

**SOCI 3367 - Sociology of Occupations .................3.00 Credits**

A study of occupational differentiation, institutions of work and relation of workers to work organizations.

*Prerequisite: SOCI 2601. [Fall]*

**SOCI 3368 - Sociology of Housing ........................3.00 Credits**

A study of housing as influenced by spatial distribution, socio- economic factors, demographic differentiation, governmental regulations and funding priorities. [Spring]

*Prerequisites: SOCI 2601 and SOCI 2011.*

**SOCI 3370 - Criminology and Penology ..............3.00 Credits**

A survey of causes and types of criminal behavior, procedures for preventing crime, and concepts of penology and rehabilitation.

*Prerequisite: SOCI 2601 and SOCI 2011 [Fall].*

**SOCI 3371 - Juvenile Delinquency .......................3.00 Credits** The nature and extent of juvenile delinquency, analysis of patterns and sociological theories of causation, role of the police and courts.

*Prerequisite: SOCI 2011 and SOCI 2601. [Spring].*

**SOCI 3380 - The Black Church.............................3.00 Credits** This course examines the unique history of Afro-American religious experiences. Special emphasis is placed on the role of slavery in structuring Black religious activities; the impact of emancipation on schism within the Black Church and the socio-cultural functioning of the Black Church. [Spring]

**SOCI 3381 - Sociology of Religion ........................3.00 Credits**

A study of the ways in which society, culture and personality influence religion and, conversely, how religion and, conversely, how religion affects these socio-cultural determinants of human behavior.

*Prerequisite: SOCI 2011. [Fall].*

**SOCI 3386 - Poverty and Welfare .........................3.00 Credits** The course is designed to acquaint the student with the nature, scope and effects of poverty. Emphasis is placed on historical social problems and the response of the welfare system to these problems. Observations and campus "laboratory" and off-campus field experiences will be included.

*Prerequisite: SOCI 2011 [Fall]*

**SOCI 4300 - Behavioral Statistics .........................3.00 Credits**

An introduction to statistical concepts, methods and techniques used in behavioral sciences. Topics include frequency distributions, graphs, measures of tendency, variability, standard scores and the normal curve, co relational techniques, hypothesis testing, sampling theory and significance differences.

*Prerequisite: Math 1111. [Fall-Spring]*

**SOCI 4304 - Behavioral Research.........................3.00 Credits**

An introduction to research procedures used in the behavioral sciences including experimental design, research methodology, and scientific writing.

**Course**

**Descriptions**

*Prerequisite: SOCI 4300 [Fall-Spring]*

**SOCI 4401 - The Psychology of Aging ..................3.00 Credits** This course examines the psychological aspects of aging with emphasis on the sensory processes, learning, psycho- motor performance, mental functioning, motivation, and interactions in health-behavior relations during the latter years of the life cycle. *Prerequisite: SOCI 2011.*

**SOCI 4435 - Death and Dying ...............................3.00 Credits** This course will focus on death, society, and human experience and several issues regarding treatment and non-treatment of the dying or those who wish to die. [Spring]. *Prerequisite: SOCI 2011.*

**SOCI 4451 - Social Theory ....................................3.00 Credits** The development of sociology as influenced by scholars in Europe and the United States, with greater emphasis on the American Writers.

*Prerequisite: SOCI 2011 [Fall] Sociology Major.*

**SOCI 4454 - Sociology Seminar ............................3.00 Credits**

A course designed especially for senior sociology majors. Emphasis is placed upon synthesizing concepts, principles, theories and methodology of sociology via lectures, student reports, group discussions and closely supervised investigation. *Prerequisite: Sociology seniors [Fall]*

**SOCI 4455 - Honors Course in Sociology ............4.00 Credits** May not be enrolled in one of the following Class(s): Senior. Supervised reading in a specialized area of sociology under the direction of an instructor. Prerequisites: senior standing with "B" average and approval of instructor. *[Spring]*

**SOCI 4464 - Social Psychology..............................3.00 Credits** Scientific study of the experience and behavior of individuals in relation to other individuals, groups and cultures. Views individuals in foreground against a background of social forces with emphasis on the relationship between social interaction and the behavior of individuals.

*Prerequisites: PSYC 1101 or SOCI 2011. [Spring]*

**Spanish**

**SPAN 1001 - Elementary Spanish I ......................3.00 Credits**

An introductory Spanish course designed to give essential survival vocabulary interspersed with cultural information and written and oral proficiency skills in the target language. Laboratory requirement.

**SPAN 1002 - Elementary Spanish II .....................3.00 Credits**

A continuation of Spanish 1001 or 1101 that furthers develop listening, speaking, reading and writing skills in Spanish while including cultural, historical, and literary components.

*Prerequisite: Spanish 1001 or equivalent. Laboratory* r*equirement.*

**SPAN 2001 - Intermediate Spanish I ....................3.00 Credits**

The student is guided in achieving some proficiency in oral communication while developing a degree of skill in reading and

writing. Aspects of Spanish life and culture are presented through

use of selected reading materials, presentations and discussions.

*Prerequisite: 1002 or equivalent*

**SPAN 2002 - Intermediate Spanish II ....................3.00 Credits**

A continuation of the elementary intermediate sequence, with greater

emphasis on achieving aural proficiency and the to describe real

and potential situations, while developing a degree of skill in reading and

writing. Aspects of Spanish life and culture are presented through

use of selected reading materials, presentations and discussions.

*Prerequisite:2001 or equivalent.*

**SPAN 2120 -Spanish Conversation I.........................3.00 Credits**

Development of the student's vocabulary and fluency in oral

expression. Designed to provide systematic practice in understanding

and speaking sustained speech in the Spanish language on topics

taken from the text.

*Prerequisite: SPAN 2002 or equivalent.*

**SPAN 2122 - Intensive Spanish Reading &**

**Speaking…………………………………………….3.00 Credits**

Intensive reading of Spanish legends and modern texts, serves as a

basis for oral practice and the development of speech techniques.

*Prerequisite: SPAN 2120 or equivalent.*

**SPAN 2220 - Hispanic Cult & Civil ......................3.00 Credits**

A study of various aspects of Spanish and Spanish American culture. Emphasis is on cultural understanding as an avenue to increased proficiency in the Spanish Language.

**Course**

**Descriptions**

*Prerequisite: SPAN 2120 or its equivalent.*

**SPAN 3001 - Survey of Span Lit I .........................3.00 Credits**

From the early medieval works to the Eighteenth Century.

*Prerequisite: SPAN 2220 or its equivalent.*

**SPAN 3002 - Survey of Span Lit II .......................3.00 Credits**

From the Nineteenth Century to the contemporary period.

*Prerequisite: SPAN 3001 or its equivalent.*

**SPAN 3110 - Spanish Phonetics.............................3.00 Credits**

An analysis of the Spanish sound system and fundamentals

of Spanish pronunciation, with attention to syllabication,intonation,

articulation and individual difficulties. The

course focuses on a review of the international phonetic alphabet.

*Perquisites: SPAN 2120, or 3120 or equivalent.*

**SPAN 3120 - Spanish Conversation II......................3.00 Credits**

The course focuses on refining the oral proficiency acquired

sequence and continue the **d**evelopment of the student's vocabulary

and fluency in oral expression. Designed to provide systematic practice

in understanding and speaking sustained speech in the Spanish

language on topics taken from the text.

*Prerequisite: SPAN 2120 or its equivalent.*

**SPAN 3335 - Spanish Composition and Reading**

**& Conversation ........................................................3.00 Credits** Advanced problems in syntax, written exercises, free composition and translation and discussion of selected readings. Intensive reading of modern Spanish texts serves as a basis for oral practice and the development of composition technique.

*Prerequisite: SPAN 3334 or the equivalent.*

**SPAN 3420 - Adv Grammar & Composition .......3.00 credits**

An inductive study of Spanish grammar. Excerpts from literary masters illustrate principles of grammar that students analyze, personalize, and practice.

*Prerequisite: 2002 or its equivalent*

**SPAN4001-Survey of Spanish-American Litre….. 3.00 Credits** Spanish America literature from Pre-Columbian to Costumbrismo.

*Prerequisite: SPAN 2220 or its equivalent.*

**SPAN 4002 - Survey of Span American Lit ..........3.00 Credits** Spanish American literature from Modernism to the contemporary period.

*Prerequisite: SPAN 4001 or equivalent.*

**SPAN 4550 - Contemporary & Spanish American Novel ………………………………………….........3.00 Credits**

Representative novels of the Spanish American Boom Period.

*Prerequisite: SPAN 4001 or 4002 or equivalent.*

**SPAN 4563 - 19th h & 20th Century Spanish Lit..........3.00 Credits**

A study of selected pieces of the Nineteenth and Twentieth century to show literary, social, and political trends in Spain.

*Prerequisite: SPAN 3001 or 3002 or equivalent.*

**SPAN 4565 - 19th & 20tth Century Span American Lit.............3.00 Credits**

A study of representative works of Nineteenth and Twentieth century read and discussed using various critical approaches.

*Prerequisite: SPAN 4001 or 4002 or equivalent.*

**SPAN 4773 - Span & Span American Poetry ...........3.00 Credits**

Developing the awareness of the historical and aesthetic aspects of poetry. .

*Prerequisite: SPAN 4565 or equivalent.*

**SPAN 4883 - The Golden Age.................. ................3.00 Credits**

A study of representative works by Calderon, Lope de Vega, Cervantes, and other masters of the period.

*Prerequisite: SPAN 3001 or 3002 or equivalent.*

**SPAN 4885 - 19th Century Drama ........................3.00 Credits**

A study of the outstanding Spanish dramatics of the Nineteenth century. Emphasis on Romanticism, its origins and aftermath. Representative plays analyzed using various critical approaches.

*Prerequisite: SPAN 3001 or 3002 or equivalent*

**SPAN 4990 - Senior Seminar .............................1.00 Credits**

A capstone course which may be taken a second time for credit if the topic is different. Available subjects may include the Spanish Language, pre-Columbian and Colonial Literature, Twentieth Century Spanish Drama, or else area studies of literature, such as

Cuban, Argentinean, Mexican, or any other Spanish Speaking area. Required of all graduating seniors.

**SPAN 4991 – Study Abroad………………………..3.00 Credits**

The study of Spanish language and culture in a foreign environment.

*Prerequisites: Sophomore standing and completion of SPAN 2002.*

**SPAN 4992 – Study Abroad…………………………3.00 Credits**

Sophomore standing and completion of SPAN 2002. The study of Spanish language and culture in a foreign environment.

**SPAN 4993 – Study Abroad…………………………3.00 Credits**

Sophomore standing and completion of SPAN 2002. The study of Spanish language and culture in a foreign environment.

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**Special Education**

**SPED 3310 - Instructional Methods/Materials**

**for Children with Mild Disabilities ........................3.00 Credits** Identifies methods and materials for teaching children with mild disabilities, including adaptations, modifications and accommodations in the general education classroom.

**SPED 3230 - Contemporary Perspectives ..........3.00 Credits**

A study of the characteristics, identification and educational needs of exceptional children and youth. Field experience required.

**SPED 3300 - Development and Characteristics**

**of Children with Mild Disabilities ..........................3.00 Credits** Examines the development and characteristics of children with mild specific learning

disabilities, behavior disorders, and mild intellectual disabilities.

**SPED 3340 - Curriculum, Transitions and**

**Instructional Planning for Teaching**

**the Mildly Disabled .................................................3.00 Credits** Observation and teaching during the entire school day under the guidance of selected classroom teachers.

**SPED 4400 - Learning Environment and**

**Behavior Management for Children**

**with Mild Disabilities ..............................................3.00 Credits**

Theory and application of behavior modification techniques

**SPED 4460 - Student Teaching the Mildly Disabled6.00 Credits** Observation and teaching during the entire school day under the guidance of selected classroom teachers.

**SPED 4470 - Student Teaching in**

**Inclusive Environments...........................................6.00 Credits** Observation and teaching during the entire school day under the guidance of selected classroom teachers.

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**SPED 4471 - Intern SPED I ....................................6.00 Credits** Observation and teaching for one semester under the direction of an approved supervising teacher in selected special education centers. A seminar component is included. Credit: Six semester hours. Departmental Approval.

**SPED 4472 - Intern SPED II ..................................6.00 Credits** Observation and teaching for one semester under the direction of an approved supervising teacher in selected special education centers. A seminar component is included. Credit: Six semester hours. Departmental Approval.

**Speech & Theatre**

**COMM 1100 - Fundamentals of Public Speaking3.00 Credits** Analysis of the role of communication in society with an emphasis on speaker-listener responsibilities. Class performance directed toward proficiency in oral communication. Required of all students.

**COMM 2020 - Voice and Diction ..........................3.00 Credits** Study and exercises in the physiological aspects of vocal delivery to develop clear articulation and effective speech production. Designed to help students recognize, evaluate and compensate for common vocal deficiencies.

*Prerequisite(s): ( COMM 1100 US C or SPT 101 UG C )*

**COMM 2030 - Oral Interpretation .......................3.00 Credits** Study and practice in the selection, evaluation, analysis, preparation, and effective oral presentation of literary works; prose, poetry and drama. Writing and adapting material for oral presentation. *Prerequisite(s): ( COMM 1100 US C or SPT 101 UG C )*

**COMM 2060 - Advanced Public Speaking...........3.00 Credits** Theory and practice of public address: selection of topic, research, outlining and organization and delivery. Preparation and presentation of original speeches and constructive criticism of performance. *Prerequisite: COMM 1100 or consent of instructor.*

**COMM 2150 - Studies in Rhetoric........................3.00 Credits** Historical study of rhetoric and rhetoricians from the classical period to the present.

*Prerequisite(s): ( COMM 1100 US C or SPT 101 UG C )*

**COMM 2200 - Principles of Discuss/Group.........3.00 Credits** Study of methods of problem-solving and decision-making through group discussion. An examination of the psycho- logical and social forces operating during group inter- section.

*Prerequisite(s): ( COMM 1100 US C or SPT 101 UG C )*

**COMM 2400 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department. Prerequisite: Permission of instructor. *Prerequisite(s): ( COMM 1100 US C or SPT 101 UG C )*

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**COMM 2410 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2420 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2430 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2440 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2450 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2460 - Speech Performance .....................1.00 Credits** Individual projects and participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 2470 - Speech Performance .....................1.00 Credits** Individual projects or participation in organized speech activities of the department.

*Prerequisite: Permission of instructor.*

**COMM 3070 - Introduction to Audiology ............3.00 Credits** Study and analysis of the anatomy, physiology and the nature of sound in relation to the ear. Identification of hearing losses and mastering of hearing diagnostics.

**COMM 3080 - Anatomy & Physics of Speech Mech3.00 Credits** Structures, musculature function, and neurology of the mechanism used for speaking.

**COMM 3100 - Black Rhetoric...............................3.00 Credits** History and interpretation of significant theories and practices of Black Oratory from 1688 to the present.

*Prerequisite: COMM 1100*

**COMM 3150 - Introduction to Forensics .............3.00 Credits** Principles and practice in both group and individual speaking events for participation in forensic tournaments, and festivals. Organization of forensic programs, management of inter-school contests and tournaments, and principles of coaching and judging.

*Prerequisite: COMM 1100 or consent of instructor.*

**COMM 3200 - Phonetics........................................3.00 Credits** Speech sounds considered from a sociological, physiological and acoustical viewpoint. Mastery of the international phonetic alphabet and practice in English phonetic transcription.

*Prerequisite: COMM 1100*

**COMM 3330 - Speech for the**

**Secondary Tchr ........................................................3.00 Credits** Study and exercises in effective communication principles and techniques in the secondary school classroom and instruction in speech and voice development.

*Prerequisite: COMM 1100.*

**COMM 3340 - Speech for Elementary/Middle Grade Teachers…….3 Credits**

Instruction and exercises in effective classroom communication and in the speech and voice development of elementary and middle grade students and teachers.

*Prerequisite: COMM 1100.*

**COMM 3760 - Speech in Prophetic Religion .......3.00 Credits**

An examination and consideration of oral interpretation in the public reading and address of scriptural literature with special emphasis on religious rhetoric and historic role of the prophet in the socio-religious situation. Attention paid to the design and preparation of homilies.

**COMM 4000 - Intercultural Communication .....3.00 Credits**

A study of communication barriers which hinder understanding among persons from different cultures, and a review of methods used in resolving these communication problems.

*Prerequisite: COMM 1100.*

**COMM 4010 - Organizational Communication ..3.00 Credits** Analysis of human communication patterns in organizations. Special emphasis on communication barriers, policies and practices in administration.

*Prerequisite: COMM 1100.*

**COMM 4070 - Intro to Speech Disorders ............3.00 Credits** Survey of speech defects and disorders found in childhood and adolescence. Basic symptoms, causes, methods of referrals and evaluations, and basic therapy treatments.

*Prerequisite: COMM 2020.*

**COMM 4080 - Organic Disorders.........................3.00 Credits** Introduction to the study of voice, cerebral palsy, cleft palate and aphasia; causation, diagnosis, and treatment of disorders. *Prerequisite: COMM 3080.*

**COMM 4090 - Acquisition & Development**

**of Language ..............................................................3.00 Credits** Study of normal speech and language acquisition including stages of development and influences on the development process. Survey of speech and language patterns resulting from environmental deprivation, mental retardation, physical anomalies, and mental illnesses.

**COMM 4100 - Fund of Parliamentary Procedure2.00 Credits** Study and intensive drill in the standard parliamentary rules governing the proceedings of deliberative assemblies. Discussion of the practices and the basic philosophy under- lying parliamentary procedure.

**COMM 4110 - Communication Research Methods ....................................................................3.00 Credits** The study of research methods used to investigate communication. This course will focus on the implementation, analysis, and interpretation of measures used to examine communication phenomena within organizations including communication audits, network analysis, and content analysis.

*Prerequisite: COMM 1100.*

**COMM 4120 - Articulation Disorders ..................3.00 Credits** Emphasis on diagnostic and treatment techniques. Mastery of international phonetic alphabet and basic plans or methods of therapeutic programs.

*Prerequisite: COMM 4070 or permission of instructor.*

**COMM 4130 - Stuttering Disorders .....................3.00 Credits** Emphasis on etiology and treatment of stuttering, based on organic or non-organic factors. Development of therapeutic approaches.

*Prerequisite: COMM 4070.*

**COMM 4200 - Argumentation and Debate..........3.00 Credits** Study and practice in the principles of argumentation and debate, including the location and evaluation of evidence, development of proofs, and preparation of briefs.

*Prerequisite: COMM 1001.*

**Theatre**

**THEA 1020 - Theatre and Culture .......................3.00 Credits**

A study of theatre as an art form with emphasis on dramatic literature and the contributions of playwrights, actors, directors, designers and managers.

**THEA 2000 - Intro to Theatrical Design ..............3.00 Credits** Basic design for theatre technicians with emphasis on drafting, perspective, color theory, rendering in various media and drawing the human form.

**THEA 2040 - Acting I .............................................3.00 Credits**

A course designed to introduce the beginning actor to the fundamentals and techniques of acting. Prerequisite: THEA 1020 or equivalent or permission of instructor.

**THEA 2041 - Acting I Laboratory ........................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre Continuation of Acting I with a concentration on science study from the modern repertoire.

*Prerequisite: 2040 or equivalent.*

**THEA 2050 - Theatrical Dance/ Movement .....................................................00 OR 3.00 Credits**

An introduction to basic stage movements and dance for performers and directors. A lecture-laboratory course with opportunities for performance. Primarily for theatre majors.

**THEA 2070 - Make-Up for Stage and Screen ......2.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre. A study of basic principles and practices in make-up for stage, screen and television. Practice in use of cosmetics, wigs, hair pieces, facial prosthetics, masks and work with departmental productions.

**THEA 2530 - History of Theatre I ........................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre. A study of theatre architecture, scenery, costume, methods of staging and production in Europe as well as a study of representative playwrights

from Ancient Greece to Russia. Prerequisite: THEA 1020 or

equivalent.

**THEA 2531 - History of Theatre II .......................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre A continuation of theatre History I beginning with Realism, Naturalism, Symbolism, Expressionism and Neo-Romanticism in theater down to the Avant-Grade Theatre in Europe.

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*Prerequisite: THEA 2530.*

**THEA 2640 - Directing I ........................................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre. Elementary principles of staging plays; practical work in directing One-Act plays; attention given to the principles of selecting, casting and rehearsing of plays, exercises, lectures and demonstrations. *Prerequisite(s): THEA 2530 US C and THEA 2041 US C*

**THEA 2900 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

**Prerequisite: Consent of instructor.**

**THEA 2901 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 2902 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 2903 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program. Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 2905 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 2906 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 2907 - Production and Performance .........1.00 Credits** Participation in a responsible capacity in a production of the Theatre Program.

*Prerequisite: Consent of instructor.*

**THEA 3030 - Theatre Management ......................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre Designed to study the tools of theater management and producing, box office, price and percentages, publicity, promotion and production costs. A survey of the organization of Theatre and promotional and managerial procedures.

*Prerequisite(s): THEA 2530 US C and THEA 2640 US C*

**THEA 3040 - Acting II ...........................................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre A study of role analysis and the problems and techniques of creating subtexts with special relation to the actor's natural qualities.

*Prerequisite: THEA 2040 or equivalent.*

**THEA 3041 - Acting II Laboratory.......................2.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre An intensive course in voice and body training.

*Prerequisite: THEA 2040 or equivalent.*

**THEA 3520 - Playwriting.......................................3.00 Credits**

A course in dramatic writing, including study and practice in writing for the modern stage and screen.

**THEA 3530 - Modern Drama ................................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre A study of significant developments in the American theatre since

1900 as reflected through the major playwrights and theatre

organizations.

*Prerequisite(s): THEA 2530 US C*

**THEA 3540 Advanced Acting III ...........................3.00 Credits**

A study of the problems and techniques of acting in periods and styles through intensive scene study and performance.

*Prerequisite(s): THEA 3040 US C*

**THEA 3541 Acting III Laboratory ........................2.00 Credits** An intensive course in voice and body training for period styles. *Prerequisite(s): THEA 3540 US C*

**THEA 3560 - Principle/Practice of**

**Stage Costume..........................................................3.00 Credits**

A study of the function of costumes for the stage, screen and television, and their relationship to other elements of dramatic production. Includes research in construction and authentic period forms.

**THEA 3600 - Black Drama ....................................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre A study of significant developments in the American Black Theatre since 1900 as reflected through the major play- wrights and theatre organizations.

*Prerequisite(s): THEA 2530 US C*

**THEA 3640 - Directing II.......................................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre A consideration of rehearsal problems and techniques as may be reflected in a full length show. In conjunction with the Theatre Programs, students direct projects selected from a variety of genres. *Prerequisite(s): THEA 2540 US C*

**THEA 3650 - Independent Study ..........................3.00 Credits**

An independent study of special topics in theatre arts, determined by the student in consultation with the instructor.

**THEA 4520 - Children's Theatre ..........................3.00 Credits**

A study of various techniques used in producing children's theatre with adult actors; experience in scene design, lighting, costuming, acting, directing and promotion; class work plus participation in the Children's Theatre Workshop.

**THEA 4760 - Seminar in Theatre .........................3.00 Credits** Must be enrolled in one of the following Major(s): Speech & Theatre Advanced individual study for the theatre major in a specialized concentrated production project. Consent of instructor and director of theatre is necessary.

*Prerequisite(s): THEA 2530 US C and THEA 2531 US C*

**THEA 4780 - Internship.........................................3.00 Credits**

Off-campus, on the job observation and training for students pursuing professional work in a variety of traditional nontraditional careers appropriate to selected academic programs.