

Course Descriptions

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COURSES IN LEARNING SUPPORT

ACAE 0099 Remediation in Language Arts *Non-credit

A course designed to give regularly admitted students an opportunity to develop basic skills in English and composition before proceeding with the freshman-level English course.

ACAM 0099 Remediation in Basic Mathematics *Non-credit

A course designed to give regularly admitted students an opportunity to develop basic skills in mathematics before proceeding with the freshman-level mathematics course.

ACAR 0099 Remediation in Reading *Non-credit

A course designed to give regularly admitted students an opportunity to enhance their reading skills prior to or during the time they are enrolled in college-level work.

DSRD 0099 Directed Studies in Reading *Non-credit

Required of learning support students who have not achieved a passing score on the system-wide exit examination in reading after having achieved an average grade of C in LANG 0099. This course consists of directed instruction in vocabulary, main idea, point of view, author's purpose, word reference, style, and organization.

LANG 0099 Developmental Language Arts *Non-credit

Required of learning support students whose performance on a placement test indicates the need for language remediation. This course offers instruction in reading, grammatical and mechanical writing skills.

MATH 0099 Developmental Mathematics *Non-credit

Required of learning support students whose performance on placement tests indicates the need for math remediation. This course offers instruction in number systems, fundamental operations, polynomials, factoring, linear equations and inequalities, quadratic equations, systems of equations, exponents, graphs and the equation of a line, and verbal problems.

COURSES IN THE REGENTS' SKILLS PROGRAM

RGTE 0199 Regents' Writing Skills *Non-credit

Required of all students who have not satisfied the Regents' Writing requirement after two attempts. This course focuses on essay writing and basic grammar, usage, and punctuation.

RGTR 0198 Regents' Reading Skills *Non-credit

Required of all students who have not satisfied the Regents' Reading requirement after two attempts. This course focuses on developing vocabulary, literal, inferential, and analytical reading skills.

COURSES IN ACCOUNTING

[R] Restricted to students who meet Enrollment Eligibility Requirements (pp. 113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

ACCT 2101 Principles of Financial Accounting 3 hours
Prerequisite: Completion of math requirement in Area A. A study of the underlying theory and application of financial accounting concepts. This course should be taken before or during the fall semester of the sophomore year by accounting or finance majors.

ACCT 2102 Principles of Managerial Accounting 3 hours
Prerequisite: ACCT 2101. A study of the underlying theory and application of managerial accounting concepts, including analysis of financial statements for usefulness in decision making. This course should be taken before or during the spring semester of the sophomore year by accounting or finance majors.

ACCT 3310 Intermediate Accounting I [R] 3 hours
Prerequisite or Corequisite: FINC 3440. A detailed intermediate level study of financial accounting through examination and application of generally accepted accounting principles for assets, liabilities, equity, revenues and expenses, primarily within the corporate business environment. This course should be taken before or during the junior year by accounting majors.

ACCT 3320 Intermediate Accounting II [R] 3 hours
Prerequisite: ACCT 3310. A continuation of ACCT 3310.

ACCT 3350 Federal Income Taxation [R] 3 hours
Prerequisite: ACCT 3310 or FINC 3440. A federal income tax course involving a study of general concepts of income, deductions, and federal income tax. Planning for small business owners is emphasized including the interaction of ordinary income, capital gains, and self employment tax. Tax research is introduced. This course should be taken before or during the junior year by accounting majors.

ACCT 3380 Fraud Examination [R] 3 hours
Prerequisite: FINC 3440. An introductory study of occupational fraud. The cross-disciplinary nature of the course makes it appropriate and useful for both accounting and non-accounting majors.

ACCT 3399 Special Topics in Accounting [R] 1-6 hours
An in-depth examination of an accounting topic. The course may be an independent study under the supervision of a member of the accounting faculty or may be a formal class. The content and requirements of this course will vary depending on the instructor and the subject of the course. The course is repeatable for up to 6 hours credit.

ACCT 4310 Intermediate Accounting III [R] 3 hours
Prerequisite: ACCT 3320. A study, including research of current financial reporting issues, of complex financial accounting topics such as income taxes; pensions; derivatives; earnings per share; accounting changes; error corrections; foreign currency transactions and translations; complex cash flow analysis; and application of International Financial Reporting Standards (IFRS).

ACCT 4320 Advanced Financial Accounting [R] 3 hours
Prerequisite: ACCT 3320. Study and application of financial recording and reporting for business combinations, emphasizing the cost approach of applying the purchase method; partnership accounting, including formation, operation, ownership changes, and liquidation; and fund accounting for governmental entities. Study of International Financial Reporting Standards (IFRS) on related topics.

ACCT 4330 Accounting Information Systems [R] 3 hours
Prerequisite: ACCT 3320. A study of the concepts, components, development tools, and development steps of accounting information systems.

ACCT 4331 Payroll Accounting Systems [R] 1 hour
Prerequisite: ACCT 3320. An independent study of payroll systems to include the requirements for payroll records, computation and payment of wages, social security taxes, withholding taxes, and unemployment compensation. The course is designed for those students expecting to seek employment with smaller accounting firms and industry.

ACCT 4350 Advanced Federal Income Taxation [R] 3 hours
Prerequisite: ACCT 3350. A course that discusses the tax problems of establishing, operating, and liquidating business entities including C corporations, S corporations, partnerships, estates, and trusts. The interaction of tax problems of the business entity and small business owner are emphasized. Estates and trusts are discussed. Tax research is conducted, state tax issues are discussed, and tax preparation software is used.

ACCT 4360 Cost Accounting [R] 3 hours
A study of manufacturing costs and cost accumulation systems. Job order, process, and standard cost systems are examined, along with direct costing and financial statement analysis. This course should be taken during the senior year by accounting majors.

ACCT 4370 Managerial Accounting [R] 3 hours
A study of the use of accounting information as a tool in the decision-making process. Measuring cost to help managers maximize profit is the emphasis of the course. Major emphasis is given to variable cost analysis. Cash flow, cash budgeting, capital budgeting, and financial statement analysis are also discussed.

ACCT 4380 Auditing [R] 3 hours
Prerequisite: ACCT 3320. A study of auditing standards and objectives and the steps involved in planning, performing, and completing an audit. Emphasis is placed on professional standards, ethics and legal responsibilities of public accountants, the study and evaluation of the internal controls within a company, and the preparation of audit reports.

ACCT 4385 Auditing Applications [R] 3 hours
Prerequisite: ACCT 4380. A course designed to apply knowledge of auditing methods in planning, performing, and completing an audit engagement. Emphasis is placed on risk analysis, internal control evaluation, sampling methodology, decision making, and documentation in audit work papers.

ACCT 4903 Georgia Intern Program in Accounting [R] 3 hours
Prerequisites: Completion of Area F, junior or senior status, completion of ACCT 3310, and minimum cumulative overall G.P.A. of 3.00. An elective available only for accounting majors. Special application is required. Grading is S or U.

ACCT 4906 Georgia Intern Program in Accounting [R] 6 hours
Prerequisites: Completion of Area F, junior or senior status, completion of ACCT 3310, and minimum cumulative overall G.P.A. of 3.00. An elective available only for accounting majors. Special application is required. Grading is S or U.

COURSES IN ANTHROPOLOGY

ANTH 1101 Introduction to Anthropology 3 hours
Anthropology is the systematic, scientific study of the origins, diversity, and changes in human biology and culture across time and space. It is an examination of human physical and cultural evolution and the variations in social organization found worldwide, both now and in the past. Sub-fields include physical and cultural anthropology, archaeology, and linguistics. This broad topic intersects with nearly every other field of study in the physical and social sciences today.

ANTH 2020 Introductory Archaeology 3 hours
This is an introductory-level course on the methods and theories used in Anthropological Archaeology, and their applications to the study of past human cultures, worldwide.

ANTH 3000 Readings in Anthropology 3 hours
Independent readings in Anthropology.

ANTH 4500 Studies in Regional Archaeology 3 hours
Prerequisite: ANTH 1101 or permission of instructor. A seminar survey of the prehistoric and contact period cultures of the Southeastern United States. A student may repeat this course for credit if the seminar topic is different from the previous time the student was enrolled.

COURSES IN ARABIC

ARAB 1002 Elementary Arabic 3 hours

Prerequisites: None but ARAB 1001 strongly recommended.

This is an elementary course with emphasis on developing listening, speaking, and reading skills of the Arabic Language. This course will continue in building on the already acquired skills from ARAB 1001. There will be stress placed upon the acquisition of practical vocabulary, which is relevant to day to day life in the Arabic-speaking world. An accent will also be placed upon listening exercises and regular dictations. Course includes video materials and stresses communication in formal and spoken Arabic.

COURSES IN ART AND ART EDUCATION

ARED 3310 Creative Art: The Young Child 3 hours

Prerequisite: Admission to the Teacher Education Program. Current art education philosophy, including discipline-based art education theory, and art curriculum planning using State of Georgia Quality Core Curriculum are addressed using materials and methods appropriate for young children. The metacognitive model of learning is emphasized. Field experiences with young children allow for practical training in lesson planning and classroom management.

ARED 3320 Creative Art: The Adolescent 3 hours

Prerequisite: Admission to the Teacher Education Program
Current art education philosophy, including discipline-based art education theory, and art curriculum planning using State of Georgia Quality Core Curriculum are addressed using materials and methods appropriate for the adolescent. The metacognitive model of learning is emphasized. Field experiences with adolescent students allow for practical training in lesson planning and classroom management.

ARED 4310 Art Education Seminar 3 hours

Prerequisite: Admission to the Teacher Education Program. Corequisite: EDUC 4000. A course that addresses issues of contemporary art teaching, including art classroom facilities, tools, and supplies; classroom management and discipline; arts advocacy; and professionalism through involvement with local, state, and national art education groups. Extensive field experience required.

ART 1010 Drawing I 3 hours

A study of the fundamentals of drawing media in still life, perspective, landscape, the model, and abstract composition. The elements and principles of art, such as line, value, shape, space, contrast, emphasis, variety, and unity are used in composition.

ART 1020 Three-Dimensional Design 3 hours

An introduction to the basic principles and elements of design as they apply to three-dimensional objects.

ART 2010 Two-Dimensional Design 3 hours
An introduction to basic theories of the formal and expressive elements of design and their visual and social implications.

ART 2020 Color Theory 3 hours
An introduction to and development of color theory in visual art applications. Various historical color theory concepts are introduced. Synthesis of these ideas will occur as students work in a variety of media and activities.

ART 2510 Art History Survey: Ancient to Medieval 3 hours
A survey of the art and architectures from prehistoric times to the Renaissance. Selected works are examined through visual presentations, lectures, and readings. Students enrolled in this course are required to attend exhibitions, guest lectures, and/or other cultural presentations outside the regular class time. This attendance requirement, is stated in writing at the beginning of the term. NOTE: Successful completion of ART 2510 fulfills the three-hour fine arts requirement in Area C of the core curriculum for the non-visual art major.

ART 2520 Art History Survey: Renaissance to Modern 3 hours
A survey of Western art and architecture from the Renaissance to current trends. Selected works are examined through visual presentations, lectures, and readings. Students enrolled in this course are required to attend exhibitions, guest lectures, and/or other cultural presentations outside the regular class time. This attendance requirement, is stated in writing at the beginning of each term. NOTE: Successful completion of ART 2520 fulfills the three-hour fine arts requirement in Area C of the core curriculum for the non-visual art major.

ART 2530 World Art 3 hours
A study of the art, artifacts, architecture, and environments from cultures worldwide. Particular focus is given to artistic forms, concepts, and motivations that differ from those found in Western/European artistic traditions. Students are introduced to a variety of issues and approaches in the study of visual and material culture history. NOTE: Successful completion of ART 2530 fulfills the three-hour fine arts requirement in Area C of the core curriculum.

ART 3100 Drawing II 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts.
Draftsmanship development and individual interpretation of ideas are emphasized. Study may include drawing the live model. Classroom critiques allow students to analyze and discuss the work of self and peers.

ART 3150 Painting 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts.
Organization of ideas and technical problems in painting. Students may use a variety of media, including watercolor, acrylic, and oil. Classroom critiques allow students to analyze and discuss the work of self and peers.

ART 3200 Sculpture 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts. An introduction to the basic methods and materials used in the creation of sculptural works. Methods may include assembling/constructing, carving, modeling, and casting. Materials may include wood, metal, clay, stone, concrete/plaster, glass, and fibers.

ART 3400 Printmaking 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts. Organization of ideas and technical problems in printmaking. Processes may include engraving, collograph, embossing, lithography, and other trends in printmaking.

ART 3450 Introduction to Graphic Design 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts. An introductory course in graphic technology that meets requirements for basic computer literacy for all studio and art education art majors. This course is an exploratory course to address current hardware and software for existing and emerging computer graphic technology.

ART 3500 Visual Literacy and Communication 3 hours
A study of the theories and processes involved in making art, individual and societal responses to various art forms, and the ways in which visual forms are used as tools of communication, and means of interaction within a social environment. Students learn how to look at, analyze, and formulate responses to art in an interactive classroom environment. Subjects include the evolution and uses of art as a communicative tool and the development of art media and techniques such as printmaking, photography, cinema, magazines, newspapers, and the Internet.

ART 3510 Art and Architecture of Ancient Greece & Rome (W) 3 hours
Prerequisite: ART 2510. An examination of the development of art and architecture in the Mediterranean from the prehistoric Aegean period through the late Roman Empire. The stylistic development of art and architecture and comparative analyses of artistic expression in various cultures are made. Emphasis is placed on the relationship of art to religious, political, philosophical, and social beliefs and practices within each. Outside readings are incorporated into class discussions.

ART 3530 Renaissance Art History (W) 3 hours
Prerequisite: ART 2520. An examination of paintings, sculpture, prints, and architecture of the early, high, and late Renaissance in Italy, France, the Holy Roman Empire (including Germany), the Netherlands, and Spain. Using a combined chronological, comparative, and thematic approach, emphasis is placed on the distinct contributions of specific artists and of different regions. The economic, philosophical, religious, political, and cultural developments of early modern European society and cities in this period, are explored in detail. Outside readings are incorporated into class discussions.

ART 3550 Modern Art History (W) 3 hours
Prerequisite: ART 2520. A focused examination of developments and changes in Western visual and material culture in the period defined as the modern era in art history, approximately 1800 to 1945. Outside readings are incorporated into class discussions.

ART 3560 Contemporary Art History (W) 3 hours
Prerequisite: ART 2520. A focused examination of developments and changes in Western visual and material culture from 1945 to the present. Outside readings are incorporated into class discussions.

ART 3570 Latin American and Latino Art 3 hours
Prerequisite: ART 2520. A study of Latin American and of U.S. Latino art in the 20th and 21st centuries. Media discussed include painting, sculpture, photography, video, installations, pottery, and weaving. Topics include aesthetic appreciation, social and historical contexts, and issues and approaches to the study of art. Students enrolled in this course are required to participate in the organization of an exhibition of Latino Art.

ART 3600 Textile Design 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts.
Organization of design concepts and techniques involved with the surface enrichment of fabric are introduced. These include surface embellishment, dyeing with synthetic dyes, direct application, and printing with pigment.

ART 3650 Weaving 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts.
Organization of design concepts and technical problems involved with the construction of fabrics are introduced. These include study of fibers, spinning, and both off-loom and loom techniques.

ART 3700 Ceramics 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts.
An introduction to the ceramic process of forming clay, glazing, and firing. Studio design problems will involve either hand-building techniques or an introduction to skills required for making pottery on the potter's wheel.

ART 3800 Photography 3 hours
Prerequisite: All Area F courses or permission of head of the Department of Visual Arts. An introduction to the photographic medium through outside assignments, studio applications, and theoretical studies. Students will examine a variety of skills including processing, printing, archival techniques, toning, collage, etc.

ART 3810 Digital Photography 3 hours
Prerequisite: All Area F courses and ART 3800. An introductory studio course in digital photography emphasizing conceptual approaches and contemporary practices utilizing appropriate software. Students will become familiar with using the computer as a digital darkroom after having developed some proficiency in the traditional wet darkroom through the prerequisite introductory photography course. Topics covered include the use of digital cameras, scanning traditional film negatives, using the scanner as a camera, tone and color controls, image manipulation, alternative processes and image output. A student may accumulate a maximum of 15 credit hours in a series of directed studies in this course.

ART 4100 Drawing III 3 hours
Prerequisite: ART 3100. Advanced studio course in drawing, covering in-depth techniques used in contemporary drawing. Study may include life model. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4150 Advanced Painting 3 hours
Prerequisite: ART 3150. Advanced studio course in painting, covering in-depth techniques used in contemporary painting. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. The examination of current literature and historic examples in painting are required. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4200 Advanced Sculpture 3 hours
Prerequisite: ART 3200. Advanced problems in sculptural processes and techniques. Emphasis upon individual creative expression. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4400 Advanced Printmaking 3 hours
Prerequisite: ART 3400. Advanced studio course in graphics, covering in depth techniques in contemporary print making. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4450 Graphic Design for the Internet 3 hours
Prerequisite: ART 3450. Advanced studio course covering web site building and animation using graphic design software. Students build their own web sites, add animation and interactivity, and study the aesthetic qualities of web sites and the technical possibilities and challenges of the Internet.

ART 4451 Graphic Design in Advertising 3 hours
Prerequisite: ART 3450. A study in the practical and theoretical applications of graphic design theory in advertising, including print, television and the Internet.

Students work in graphic design software to produce advertising projects. Students work individually and in groups to produce these projects.

ART 4452 Digital Media 3 hours
Prerequisite: ART 3450. Advanced studio course using a variety of software in the production of motion graphics and videos. Topics introduced include interactivity, digital animation, audio track (voice over, music, etc.) editing and text animation (titles, scrolling credits, etc.)

ART 4453 Digital Illustration 3 hours
Prerequisite: ART 3450. Advanced studio course in the principles and practices of digital illustration. Most of the major illustration fields will be explored. Students complete a series of illustrations utilizing a variety of software and techniques. Use of the computer as an illustration tool is emphasized.

ART 4511 History of Photography and Prints (W) 3 hours
Prerequisite: ART 2520. An examination of the history and aesthetics of photography and prints from their beginnings to the present. Changes in subject matter and stylistic concerns, different roles and uses of photographs and prints, and the development of photographic and print techniques and equipment will be discussed. Emphasis is placed on photographs and prints as artistic expression and their relationship to other arts within the contexts of social and political influences upon them and their creators. Significant outside readings are incorporated into class discussions.

ART 4521 Appalachian Art and Artistic Expression (W) 3 hours
Prerequisite: ART 2520. An in-depth examination of the distinctive regional identity, themes, and means of expression in the arts of the Appalachian South. Themes include ethnic aesthetic expression, sectarian culture, community identity, and the function of art in religious and everyday life. Significant outside readings are incorporated into class discussions.

ART 4540 American Art History (W) 3 hours
Prerequisite: ART 2520. The development of painting, sculpture, architecture, and the decorative arts in the United States from colonial era to the present. Works are examined within the contexts of their political, social, economic, and religious backgrounds and in relationship to European art of the period, and with an emphasis placed on the changing socio-economic position of the United States and the country's rise as an international artistic center in the twentieth century. Significant outside readings are incorporated into class discussions.

ART 4560 Aesthetics and Criticism (W) 3 hours
Prerequisite: ART 2520. A detailed examination of philosophical and critical interpretations of art and architecture, with particular focus upon the viewer's experience and interpretation of art and the roles art and artists have played in different cultures and civilizations from Ancient Greece to the present. Emphasis is placed on philosophical, critical, and analytical writings on art in the West from

the eighteenth century to the present. Significant outside readings are the basis of in-depth class discussions.

ART 4600 Advanced Textile Design 3 hours

Prerequisite: ART 3600. Advanced studio course in the surface design of fabrics, covering in-depth techniques used in contemporary textiles. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4650 Advanced Weaving 3 hours

Prerequisite: ART 3650. Advanced studio course in weaving, covering additional in-depth weaving techniques such as weaving theory, spinning, and dyeing yarns. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4700 Advanced Ceramics 3 hours

Prerequisite: ART 3700. Advanced course in ceramics, covering in-depth techniques used in contemporary pottery, such as potters' wheel or hand building, glaze preparation, and kiln firing. Students are involved in individual problem solving assignments reflecting personal creative solutions in visual form. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4800 Advanced Photography 3 hours

Prerequisite: ART 3800. Advanced studio course in photography, covering in-depth techniques used in contemporary applications, such as documentary color and black and white photography, advanced printing techniques, alternative processes, digital, and commercial applications of photography. Students are involved in individual and collaborative problem solving assignments reflecting creative solutions in form and content. A Studio Art or Art Marketing major may accumulate a maximum of 9 credit hours in a series of directed studies in this course.

ART 4850 Georgia Intern Program In Fine Arts 3 hours

Prerequisite: Permission from the head of the Department of Visual Arts. A capstone course for students in art marketing, but may be used by students in the BA in Art, or in the minor in Art History. Students apply skills acquired through academic study in a performance-based context. Students enrolled in this course are generally assigned to work with an outside agency or institution through a cooperative agreement originated by the NGCSU Department of Visual Arts and the Office of Career Services.

ART 4900 Seminar And Exhibition (O) 1 hour

Prerequisites: ART 4920 and permission from the head of the Department of Visual Arts. A course in which a fundamental aspect is the senior exhibit which art majors present during the last year of matriculation at North Georgia College

& State University. Attendance at workshops, guest artists' lectures, field trips, and students' exhibition critiques is required.

ART 4910 Problems In Art

3 hours

Prerequisite: Permission from the head of the Department of Visual Arts. A senior-level course which may be offered to students following completion of a minimum of 3 hours in a specific art medium at the 4000-level. This course will allow in-depth interaction by means of class projects, criticism, analysis and exhibition.

ART 4920 Portfolio Production

2 hours

Prerequisite: Senior Review approval and permission from the head of the Department of Visual Arts. Taken in the semester prior to the student's participation in ART 4900. Students create a unified, coherent and substantial body of work for their senior exhibition. Professional preparation, including preparing a resume and conducting job interviews, is emphasized. Attendance at workshops, guest artists' lectures, field trips, and student critiques is required.

INTERDISCIPLINARY FINE ARTS EDUCATION COURSES

**ARTS 3000 Integrated Applied Arts: Art, Music
Creative Performance, and Movement**

3 hours

A team-taught course designed to give students experiences in selecting and presenting art activities, stories, plays, music, and dance activities which enhance and are, in turn, enhanced by other subject areas within a thematic unit framework.

ARTS 3010 Integrated Fine Arts for the Young Child

3 hours

A team-taught course in which students will be introduced to fine arts pedagogy. The roles of both generalist and specialist will be addressed as students are introduced to concepts and skills necessary to provide young children with developmentally and discipline-appropriate activities in both music and visual art. Classroom instruction will include important current pedagogical topics such as multiculturalism and technology in education. The course will also include a component relating fine arts education to physical movement through the application of Dalcroze and other pedagogical approaches. A metacognitive model of learning will be emphasized. Field experiences with young children will allow for practical application of theory.

COURSES IN ASTRONOMY

ASTR 1010 Astronomy of the Solar System 3 hours

Astronomy from early ideas of the cosmos to modern observational techniques. The solar system planets, satellites, and minor bodies. The origin and evolution of the solar system. Slides, films, classroom demonstrations, and planetarium shows aid the discussion of these topics. Three lecture-discussions per week.

ASTR 1010L Solar System Laboratory 1 hour

Corequisite: ASTR 1010. Laboratory to accompany ASTR 1010. Laboratory exercises will involve the student in observing stars and planets with the 3- to 16-inch telescopes of the college observatory. One 2-hour laboratory per week.

ASTR 1020 Stellar and Galactic Astronomy 3 hours

The study of the sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, the origin and evolution of the universe. Slides, films, classroom demonstrations, and planetarium shows are used throughout to aid in classroom discussions. Three lecture-discussions per week.

ASTR 1020L Stellar Astronomy Laboratory 1 hour

Corequisite: ASTR 1020. Laboratory to accompany ASTR 1020. Laboratory exercises emphasize student observations of the star systems, galaxies, and planets. Telescopes of from 3 to 16 inches in size will be used at the university observatory. One 2-hour laboratory per week.

ASTR 3061 Observational Astronomy I 2 hours

Prerequisite: MATH 1113. Corequisite: PHYS 2212 or permission of instructor. First course of a two-course sequence which introduces students to modern observational methods and data reduction techniques. Students will be involved in observational and data reduction projects using the university observatory and the software package IRAF. Two 1-hour lecture sessions per week and at least one hour of observatory duty as a Telescope Operator or observational project work.

ASTR 3062 Observational Astronomy II 2 hours

Prerequisite: ASTR 3061. Continuation of a two-course sequence which introduces students to modern observational methods and data reduction techniques. Students will be involved in observational and data reduction projects using the college observatory and the software package IRAF. Includes one 2-hour seminar per week and at least 1-hour observatory duty as a Telescope Operator or observational project work.

ASTR 3150 Introductory Astrophysics 3 hours

Prerequisite: PHYS 2211, MATH 2450, or permission of instructor. Corequisite: PHYS 2212, MATH 2460, or permission of instructor. A survey of modern astronomy and astrophysics for the serious science student. Topics include celestial mechanics, stars and stellar evolution, the Milky Way Galaxy, and extragalactic astronomy and cosmology. Includes three hours of lecture per week and at least one hour of observatory duty as a Telescope Operator.

COURSES IN ATHLETIC TRAINING

ATEP 2001 Athletic Training Internship 1 hour
Prerequisite: ATEP 2335 and 2336 with a B or better. If PHED 3012 has not been completed a student must enroll in PHED 3012 as a co-requisite course. The student is assigned to a certified athletic trainer who is an approved clinical instructor (ACI) for NGCSU. Under the direct supervision of the ACI, the student will practice clinical skills as well as be evaluated and reevaluated on clinical proficiencies.

ATEP 2335 Athletic Training I 3 hours
This course is designed to introduce the student to the basic practices of an athletic trainer. The student is acquainted with current practices of acute care of injury and illness, and the prevention of injuries. The class provides a fundamental understanding of the knowledge and skills necessary to prepare students of athletic training, potential physical educators, and other professionals to prevent and care for athletic injuries or illness.

ATEP 2336 Athletic Training I Practicum 2 hours
Prerequisite or Co-Requisite: ATEP 2335. This course is designed to teach the proper skills related to the prevention of athletic injuries and illnesses. Through hands-on participation in lab activities and clinical observation the student will be prepared for entrance into the athletic training education program. Weekly clinical hours will be assigned as part of this class. There will be classes that are held outside of the regularly scheduled class period.

ATEP 3001 Athletic Training Internship II 1 hour
Prerequisite: ATEP admittance. The student is assigned to a certified athletic trainer who is an approved clinical instructor (ACI) for NGCSU. Under the direct supervision of an ACI, the student will practice proficiencies as well as be evaluated and reevaluate on clinical proficiencies.

ATEP 3002 Athletic Training Internship III 1 hour
Prerequisite: ATEP 3001. The student is assigned to a certified athletic trainer who is an approved clinical instructor (ACI) for NGCSU. Under the direct supervision of an ACI, the student will practice proficiencies, as well as be evaluated and re-evaluated on clinical proficiencies.

ATEP 3365 Therapeutic Exercise & Pathology of Injury 2 hours
Prerequisite: Admittance into the Athletic Training Education Program. This course is designed to teach the student physiological responses to injury, proper progression of therapeutic exercises, use of available equipment, and acceptance of moral and ethical obligations. The student will be presented the theoretical and practical approaches for designing rehabilitation protocols and the use of various rehabilitation equipment. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 3365L Therapeutic Exercise & Pathology of Injury Lab 1 hour
Prerequisite: Admittance into the Athletic Training Education Program. The purpose of this course is to allow the athletic training student the opportunity to increase practical skills when designing a rehabilitation protocol and enhance clinical skills when using various rehabilitation equipment. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 3370 Therapeutic Modalities 2 hours
Prerequisite: Admittance into the Athletic Training Education Program. This class will provide the student with decision-making skills in the selection of appropriate therapeutic modalities. Pre-treatment assessment, treatment set-up, modality application, assessment of treatment response, and appropriate documentation will be addressed for the use of therapeutic modalities. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 3370L Therapeutic Modalities Lab 1 hour
Prerequisite: Admittance into the Athletic Training Education Program. The purpose of this course is to allow athletic training student the opportunity to increase practical skills when selecting, setting up, and applying therapeutic modalities. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 3468 Organization and Administration of Athletic Training Programs 3 hours
Prerequisite: ATEP 4467. Planning and management of a health care facility, professional development and responsibilities, as well as communication skills will be the focus of this course.

ATEP 4001 Athletic Training Internship IV 1 hour
Prerequisite: ATEP 3002. The student is assigned to a certified athletic trainer who is an approved clinical instructor (ACI) for NGCSU. Under the direct supervision of an ACI, the student will practice proficiencies as well as be evaluated and reevaluated on clinical proficiencies.

ATEP 4002 Athletic Training Internship V 1 hour
Prerequisite: ATEP 4001. The student is assigned to a certified athletic trainer who is an approved clinical instructor (ACI) for NGCSU. Under the direct supervision of an ACI, the student will practice proficiencies as well as be evaluated and reevaluated on clinical proficiencies.

ATEP 4336 Orthopedic Evaluation I 3 hours
Co-Requisites: ATEP 4465, 3370, 3370L. This class focuses on an in-depth study of functional human anatomy and orthopedic evaluation of the lower extremity, including the pelvis.

ATEP 4465 Critical Injury Management 3 hours
Prerequisites: Admittance into the Athletic Training Education Program.
Co-requisite: ATEP 4336, 3370, 3370L. This class is designed to teach students documentation skills in an athletic training setting as well as emergency and referral procedures. The student will learn how to assess and treat head and facial injuries/conditions as well as spinal and abdominal injuries/conditions. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 4466 Orthopedic Assessment II 3 hours
Prerequisites: ATEP 4336, 4465, 3370, 3370L, or by permission of instructor. This course focuses on an in-depth study of functional anatomy and orthopedic evaluation of the upper extremity and spine. Risk management, prevention, and mechanism of specific injuries and illnesses that occur in those who are physically active will also be addressed.

ATEP 4467 General Medicine in Athletic Training 3 hours
Prerequisite: ATEP 4466. This class emphasizes psychosocial intervention and referral of athletes. The student will also learn the various skin disorders, as well as general medical conditions and disabilities. During this course, a variety of classes will be held at times other than the regularly scheduled class time.

ATEP 4468 Athletic Training Capstone 3 hours
Prerequisite: ATEP 4467. This course is designed to document learning over time and will prepare students for the BOC exam by a comprehensive review of each of the twelve content areas in athletic training. This is a student presentation and research-based course. During this course, a variety of in-services will be held at times other than the regularly scheduled class time.

ATEP 4469 Applied Pharmacology 2 hours
Prerequisite: ATEP 4465. This course is designed specifically for the athletic training education student. The main focus of this course is the administration of therapeutic medications, as well as indications, contraindications, precautions, and reactions of therapeutic medications. Performance-enhancing drugs commonly used by athletes and social drug use will also be addressed.

ATEP 4470 Research and Design 1 hour
Prerequisite: ATEP 4466. The focus of this course is on research methods and application. Students will be exposed to the scientific method and will be expected to develop a research proposal pertaining to the field of athletic training.

BIOLOGY COURSES

Number series indicate hours of lecture per week, hours of laboratory per week, and course credit hours; e.g. 3-2-4 means 3 hours of lecture per week, 2 hours of lab per week (1 two-hour lab), and 4 semester hours course credit.

BIOL 1010 Introductory Biology 3 hours 3-0-3
Corequisite: Introductory Biology Laboratory. A biology course for non-science students that includes an introduction to scientific investigation, biological processes, and organismal biology. This course emphasizes a topical, human-oriented approach to the relevance of biology in the contemporary world.

BIOL 1010L Introductory Biology Laboratory 1 hour 0-2-1
Corequisite: Introductory Biology. Uses the scientific method to conduct investigations and to employ critical thinking to discover answers to biological questions.

BIOL 1107K Principles of Biology I 4 hours 3-3-4
Prerequisite: High school chemistry with a grade of C or above, minimum Freshman Index (FI). An overview of biology that includes scientific methods, biological chemistry, cell biology, biological energy transformation, genetics, gene expression and regulation, population genetics, and evolution. Students conduct experiments in cellular and molecular biology using standard investigative techniques and critical thinking. This course is appropriate for students majoring in the sciences. With laboratory.

BIOL 1107K Honors Principles of Biology I 4 hours 3-3-4
Prerequisite: Admission to the Honors Program, high school chemistry with a grade of C or above, minimum Freshman Index (FI). An overview of biology that includes scientific methods, biological chemistry, cell biology, biological energy transformation, genetics, gene expression and regulation, population genetics, and evolution. Students conduct experiments in cellular and molecular biology using standard investigative techniques and critical thinking. This course is appropriate for students majoring in the sciences. With laboratory.

BIOL 1108K Principles of Biology II 4 hours 3-3-4
Prerequisite: Principles of Biology I. A continuation of Principles of Biology I that includes ecology, and diversity, growth, reproduction, and physiology of major taxa. Students conduct hands-on investigations to explore biological diversity with an emphasis on experimental use of important model organisms, organ systems in animals, and dissection. With laboratory.

BIOL 1260 Environmental Science 3 hours 3-0-3
An interdisciplinary study of the fundamentals of ecology and their application to societal issues emphasizing human interactions with the world environment. This course may be taken with or without the laboratory.

- BIOL 1260L Environmental Science Laboratory** 1 hour 0-2-1
An interdisciplinary investigation of global environmental issues utilizing field experiences, laboratory simulations, and case studies.
- BIOL 1260H Honors Environmental Science** 4 hours 3-2-4
An interdisciplinary study of the fundamentals of ecology and their application to societal issues emphasizing human interactions with the world environment. With laboratory.
- BIOL 2250 Human Anatomy and Physiology I** 4 hours 3-2-4
A study of the structure and function of the human body, from cell and tissue organization through certain organ systems. With laboratory.
- BIOL 2251 Human Anatomy and Physiology II** 4 hours 3-2-4
Prerequisite: Human Anatomy and Physiology I or permission of the instructor. A continuation of Human Anatomy and Physiology I. A study of those organ systems not discussed in Human Anatomy and Physiology I. With laboratory.
- BIOL 2280 Medical Microbiology: Infection and Immunity** 4 hours 3-3-4
Prerequisites: Principles of Biology I and II or Human Anatomy and Physiology I and II. Some chemistry is recommended. A basic course in microbiology emphasizing microbial control, epidemiology, pathogenicity, immunity, virulence and a survey of selected human communicable diseases. With laboratory.
- BIOL 3220 Genetics** 4 hours 3-3-4
Prerequisites: Principles of Biology I and Principles of Biology II, and Principles of Chemistry I. A study of the principles of inheritance in plants and animals including transmission genetics, molecular genetics, and population genetics. With laboratory.
- BIOL 3230 Ecology** 4 hours 3-3-4
Prerequisites: Principles of Biology I and Principles of Biology II. A study of the interactions of organisms with their physical and biological environment that determines distribution and abundance. With laboratory.
- BIOL 3240 Cell Biology** 4 hours 4-3-4
Prerequisites: Principles of Biology I and Principles of Biology II and Principles of Chemistry II. A molecular approach to the study of the function and organization of the eukaryotic cell. With laboratory.
- BIOL 3321 General Botany** 4 hours 3-3-4
A study of the morphology, anatomy, development, genetics, physiology, and ecology of plants. With laboratory.
- BIOL 3322 Plant Diversity** 4 hours 3-3-4
A study of diversity and evolution of organisms with cell walls, emphasizing the plant kingdom. Influence of plants on humans will be highlighted. With laboratory.

BIOL 3325 Invertebrate Zoology 4 hours 3-3-4
A study of the structure, activities, physiology, adaptations, ecology and relationships of invertebrate animals. With laboratory.

BIOL 3326 Vertebrate Zoology 4 hours 3-3-4
An overview of the general taxonomy, morphology, physiology, ecology, and evolution of vertebrates. With laboratory.

BIOL 3331 Ecology Field Study 1 hour 0-2-1
Prerequisite or corequisite: Ecology. A study of the Okefenokee Swamp ecosystem in south Georgia via an extended (four-day) field experience. Students must pay a portion of the expenses.

BIOL 3350 Physiology 4 hours 3-2-4
Prerequisites: Cell Biology and Principles of Chemistry II. A study of the mammalian physiologic processes at the cell, organ, and organ system levels. Lab emphasizes data collection and interpretation. With laboratory.

BIOL 3390 General Microbiology 4 hours 3-3-4
Prerequisites: Genetics and Cell Biology. Ecology recommended. An introduction to the principles and techniques of microbiology including, metabolism, genetics, and an overview of microbial classification. With laboratory.

BIOL 4310 Plant Taxonomy 4 hours 3-3-4
An introductory plant taxonomy course using local vascular plants to teach principles of plant systematics. The laboratory includes weekly field studies in the Piedmont and Blue Ridge of north Georgia.

BIOL 4311 Botany Field Study 1 hour 0-2-1
Prerequisite or corequisite: General Botany, Plant Diversity or Plant Taxonomy. A study of vascular plants in habitats of the coastal plain in south Georgia and north Florida via an extended (four-day) field study. Students are expected to pay a portion of the expenses.

BIOL 4327 Wildlife Ecology 4 hours 3-2-4
A study of the natural history of selected wildlife species, with emphasis on game species, conservation, and management. The laboratory includes field studies. Certain projects and required weekend field trips will entail additional student expense.

BIOL 4380 Environmental Microbiology 4 hours 3-2-4
A study of microorganisms in terrestrial, atmospheric, aquatic, and extreme environments. With laboratory.

BIOL 4435 Immunology 3 hours 3-0-3
Prerequisites: Cell Biology. An introduction to the mammalian immune system. The course will describe the essential components of the immune system and how these respond to the pathogens and other relevant invasive events. The course will emphasize the human immune system.

- BIOL 4440 Limnology** 4 hours 3-3-4
An integrated approach to the study of inland waters, such as rivers, streams, lakes, reservoirs, and wetlands with central focus on the structure and function of lakes. With laboratory.
- BIOL 4450 Evolutionary Biology** 3 hours 3-0-3
Prerequisites: Genetics and Ecology. A study of the principles of evolutionary biology, the history of evolutionary thought, the mechanisms of evolution, evidence of evolution, evolutionary theories, the early history of life on Earth, and human evolution.
- BIOL 4460 Marine Biology** 3 hours 3-0-3
Prerequisites: Ecology. Invertebrate Zoology recommended. An overview of marine biology, including physical, chemical and biological oceanography, and marine ecology.
- BIOL 4461 Marine Field Study** 1 hour 0-2-1
Corequisites or prerequisite: Marine Biology. A study of regional marine habitats and their physical and biological characteristics via an extended field study. Students must pay a portion of the expenses.
- BIOL 4470 Human Histology** 4 hours 3-2-4
Prerequisites: Cell Biology. A detailed study of selected human tissues and organs. With laboratory.
- BIOL 4471 Histological Techniques** 1 hour 0-4-2
Prerequisites: Cell Biology; corequisite: Human Histology. An introduction to the practical application, procedures, and equipment used in the preparation of microscope slides of animal tissues.
- BIOL 4480 Developmental Biology** 4 hours 3-3-4
Prerequisites: Genetics and Cell Biology. An introduction to the patterns of organismal development, mechanisms of cellular differentiation, cell interactions, and the molecular basis of development. With laboratory.
- BIOL 4510 Animal Behavior** 3 hours 3-0-3
Prerequisites: Ecology. An introduction to the fundamental principles of behavior with emphasis on proximate and ultimate mechanisms.
- BIOL 4520 Herpetology** 4 hours 3-3-4
Prerequisites: Vertebrate Zoology. A study of the biology of amphibians and reptiles.
- BIOL 4540 Biotechnology** 4 hours 2-4-4
Prerequisites: Genetics. An emphasis on recombinant DNA technology, nucleotide sequencing, and molecular forensic methods. With laboratory.

BIOL 4550 Experimental Biology 4 hours 3-2-4
Prerequisites: Genetics and Ecology with a grade of C or better. An experimental approach to the quantification and analysis of biological phenomena. To gain experience in biological research, students will design, perform, analyze and report on individual and group projects.

BIOL 4700 Biology Seminar 1 hour 1-0-1
Student presentations of advanced study in selected biological topics. Junior or Senior status.

BIOL 4710 Biogeography 3 hours 3-0-3
Prerequisites: Ecology. A study of factors that influence the distributions of plants and animals from the organismal level to the ecological level. Factors investigated include those that are geological, climatological, and ecological in scope. The focus of the course is how these factors have resulted in biogeographical patterns both locally and globally.

BIOL 4760 Bioinformatics 3 hours 2-4-4
Prerequisites: Two semesters of majors Chemistry, Biology, Physics, Mathematics or Computer Science. An introduction to the application of mathematical/statistical algorithms and computer technology to the annotation and comparison of nucleotide and amino acid sequences from DNA, RNA and proteins. Instructors from several disciplines will present background knowledge of genetics, genomics and proteomics, as well as explanations of algorithms and their formulation and application, including the use of Unix systems and Perl programming language. Emphasis on problem solving. One credit hour of lecture and two credit hours of computer laboratory per week (i.e., 6 contact hours per week).

BIOL 4800-4807 Independent Study/Undergraduate Research
1-8 hours in increments of 1 hour. 0-0-1 (TBA). An advanced study of special topics open to junior and senior biology majors. Study topic subject to approval by the supervising faculty member and the biology department head. Requires submission and approval of the Undergraduate Independent Study Research Plan prior to the end of DROP/ADD.

BIOL 4x26 Special Topics in Biology 2-4 hours
(Where x = 1-9 depending on topic)
Prerequisite: Consent of instructor. Repeatable for credit. A course covering one of a variety of advanced topics offered on a rotating basis.

COURSES IN BUSINESS ADMINISTRATION

[R] Restricted to students who meet Enrollment Eligibility Requirements (pp. 113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

BUSA 2528 Travel Abroad / International Business 1-3 hours
Prerequisite: At least 30 earned hours at the time of the experience. An introductory course involving an international experience. This course may be an independent study under the supervision of a faculty member or may be a formal class. The content and requirements of this course will vary depending on the international experience involved. Special application is required. Repeatable for up to 6 hours total.

BUSA 3110 Statistics for Business (W) 3 hours
Prerequisite: MATH 2400. A second course in statistical methods with special reference to applications in business and industry. Topics include data collection, sampling, regression, forecasting, and statistical quality control. Spreadsheet software is used extensively in the course. It is recommended that students without experience using spreadsheets complete CSCI 1100 prior to taking this course. This course should be taken as soon as the prerequisites are satisfied.

BUSA 3120 Operations Management [R] 3 hours
Prerequisite: MATH 2400. A course that familiarizes the student with the nature and scope of production and operations management in modern industry. The topics emphasized include operations philosophies, operations strategy, inventory control, project management, and other current topics selected by the instructor.

BUSA 3810 Business Law [R] 3 hours
An overview of the legal system with special emphasis on contracts, sale of goods under the U.C.C., negotiable instruments, risk-bearing devices, and basic law of real property, personal property, wills, trusts, and estates. Reference is made to current legislation affecting business.

BUSA 3910 Business Leadership: Theories and Processes 3 hours
Prerequisite: PSYC 1030 with a grade of B or better. A course in which students will discuss and apply modern organizational leadership theories and business management and leadership practices in business cases, management scenarios, and role plays. The course is modeled on the “leader, follower, and situation” framework adopted within many leadership models. Students will learn how these contextual variables of leadership interact and will develop competencies and skills in dealing with each.

BUSA 3920 Business Leadership Project [R] 3 hours
Prerequisites: Business Major and completion of BUSA 3910 with a grade of B or better. Credit for this course is earned by creating, planning, organizing, leading, and controlling a specific, pre-approved project that produces a tangible outcome. The project may benefit NGCSU, the local community, or a specific organization (profit or not-for-profit). Credit may be earned for an internship if the internship is pre-approved for this course and the internship fully satisfies the course objectives. Any internship used to satisfy requirements for this course may not be used to earn credit in another internship course.

BUSA 3995 Leadership in Business [R] 3 hours
A look at the individual worker in the business world. Topics covered include developing personal vision, assessing personal strengths, identifying employment opportunities, concepts of supervising and supervision, personal ethics in business, surviving in turbulent times, networking, exercising leadership, career advancement, and remaining current in the business discipline. Topics will be presented from the perspective of current business professionals. Available as an elective for business students. Grading is S or U.

BUSA 3999 Special Topics in Business [R] 1-6 hours
An in depth examination of a general business topic. The course may be an independent study under the supervision of a member of the business faculty or may be a formal class. The content and requirements of this course will vary depending on the instructor and the subject of the course. This course is repeatable for up to 6 hours credit.

BUSA 4527 International Business (O) [R] 3 hours
Prerequisites: FINC 3440, MGMT 3661 & MKTG 3700. An analysis of the mechanics of doing business abroad including theories of trade, methods of trade, and balance of payments. In addition, the effect of cultural, economic, environmental, legal, political, and sociological differences on U.S. business operations abroad will be linked with the functional areas of international business: accounting, finance, management, and marketing.

BUSA 4528 Travel Abroad / International Business [R] 3 hours
Prerequisites: FINC 3440, MGMT 3661, MKTG 3700. A course designed to introduce students to the international business environment. It includes travel abroad to observe business and cultural differences in a foreign context. The trip is supplemented with at least two live class meetings, on-line international business lessons, and associated deliverables. Special application is required, and enrollment is limited. This course may be substituted for BUSA 4527 in the Common Professional Component.

BUSA 4903 Georgia Intern Program in Business Administration [R] 3 hours
Prerequisites: Completion of Area F, junior or senior status, and minimum cumulative overall G.P.A. of 2.50. An elective available only for Business Administration majors. Special application is required. Grading is S or U.

BUSA 4906 Georgia Intern Program in Business Administration [R]

6 hours

Prerequisites: Completion of Area F, junior or senior status, and minimum cumulative overall G.P.A. of 2.50. An elective available only for Business Administration majors. Special application is required. Grading is S or U.

BUSA 4995 Strategic Management (W) (O) [R]

3 hours

Prerequisites: FINC 3440, MGMT 3661 & MKTG 3700, Area F of Core Curriculum completed, and within 24 hours of meeting degree requirements. This course is designed for Business Administration majors who are within two semesters of graduation. This is a capstone course integrating the application of analytical skills acquired from previous courses in accounting, finance, management, and marketing.

COURSES IN CHEMISTRY

CHEM 1151 Survey of Chemistry I

3 hours

Corequisite: CHEM 1151L. First course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health and non-science majors. Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular structure.

CHEM 1151L Survey of Chemistry I Laboratory

1 hour

Corequisite: CHEM 1151. Laboratory exercises to supplement the lecture material of CHEM 1151.

CHEM 1152 Survey of Chemistry II

3 hours

Prerequisite: CHEM 1151/1151L. Corequisite: CHEM 1152L. Second course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health and non-science majors. Students are strongly encouraged to take CHEM 1151 and CHEM 1152 in consecutive semesters.

CHEM 1152L Survey of Chemistry II Laboratory

1 hour

Prerequisite: CHEM 1151/1151L. Corequisite: CHEM 1152. Laboratory exercises to supplement the lecture material of CHEM 1152.

CHEM 1211 Principles of Chemistry I

3 hours

Prerequisite: one year high school chemistry. Corequisite: CHEM 1211L. First course in a two-semester sequence covering the fundamental principles and applications of chemistry for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.

CHEM 1211L Principles of Chemistry I Laboratory

1 hour

Corequisite: CHEM 1211. Laboratory exercises to supplement the lecture material of CHEM 1211.

- CHEM 1212 Principles of Chemistry II** 3 hours
Prerequisite: CHEM 1211/1211L. Corequisite: CHEM 1212L. Continuation of Principles of Chemistry I. Second course of a two-semester sequence covering the fundamental principles and applications of chemistry for science majors. Topics to be covered include states of matter, kinetics, and equilibrium. Students are strongly encouraged to take CHEM 1211 and CHEM 1212 in consecutive semesters.
- CHEM 1212L Principles of Chemistry II Laboratory** 1 hour
Prerequisite: CHEM 1211/1211L. Corequisite: CHEM 1212. Laboratory exercises to supplement the lecture material of CHEM 1212.
- CHEM 1214 Critical Thinking in Chemistry** 1 hour
Prerequisite: CHEM 1211/1211L. Corequisite: CHEM 1212. This course is for students enrolled in CHEM 1212 which will explore strategies for problem solving in Principles of Chemistry.
- CHEM 2200L Undergraduate Research** 1-4 hours (6 hrs Maximum)
Prerequisite: Permission of Instructor. A variable credit, independent research project conducted under the supervision of a member of the department.
- CHEM 2734 Analytical Chemistry** 3 hours
Prerequisite: CHEM 1212/1212L. Corequisite: CHEM 2734L. An introduction to the classical methods of quantitative chemical analysis. The laboratory will stress elementary statistics and titrations as well as the use of instruments such as spectrophotometers and the analytical balance.
- CHEM 2734L Analytical Chemistry Laboratory** 1 hour
Prerequisite: CHEM 1212/1212L. Corequisite: CHEM 2734. Laboratory to accompany Analytical Chemistry.
- CHEM 3441 Organic Chemistry I** 3 hours
Prerequisite: CHEM 1212/1212L. Corequisite: CHEM 3441L. A study of the nomenclature, structure and stereochemistry, physical properties and spectroscopy of organic molecules. Reaction mechanisms will be emphasized.
- CHEM 3441L Organic Chemistry I Laboratory** 1 hour
Prerequisite: CHEM 1212/1212L. Corequisite: CHEM 3441. Laboratory to supplement CHEM 3441 will stress modern microscale techniques and current separation technologies.
- CHEM 3442 Organic Chemistry II** 3 hours
Prerequisite: C or better in CHEM 3441/3441L. Corequisite: CHEM 3442L. Continuation of Organic Chemistry I including the chemistry of carbonyl compounds and biological molecules. Students are strongly encouraged to take CHEM 3441 and CHEM 3342 in consecutive semesters.

CHEM 3442L Organic Chemistry II Laboratory 1 hour
Prerequisite: C or better in CHEM 3441/3441L. Corequisite: CHEM 3442. Laboratory to supplement CHEM 3442 will stress modern microscale techniques and current separation techniques.

CHEM 3541 Physical Chemistry I 3 hours
Prerequisites: CHEM 1212/1212L, PHYS 2212/2212L, MATH 2460. Corequisite: CHEM 3541L. A study of properties of solids, liquids, and gases, solutions, thermodynamics, kinetics and quantum mechanics.

CHEM 3541L Physical Chemistry I Laboratory 1 hour
Prerequisites: CHEM 1212/1212L, PHYS 2212/2212L, MATH 2460. Corequisite: CHEM 3541. The associated laboratory will emphasize quantitative measurements and statistical data analysis.

CHEM 3542 Physical Chemistry II 3 hours
Prerequisites: CHEM 3541/3541L. Corequisite: CHEM 3542L. Continuation of Physical Chemistry I.

CHEM 3542L Physical Chemistry II Laboratory 1 hour
Prerequisite: CHEM 3541/3541L. Corequisite: CHEM 3542. The associated laboratory will emphasize quantitative measurements and statistical data analysis.

CHEM 3824 Introduction to Medicinal Chemistry and Pharmacology 3 hours
Prerequisite: CHEM 3442/3442L. An introduction to the basic principles of chemistry as they apply to pharmaceutical and biological systems. Representatives of various classes of drugs will be described in detail with respect to therapeutic indications, stability, structure-activity relationships, metabolism, mechanism of action and side-effects.

CHEM 3911 Junior Seminar (W) (O) 1 hour
Prerequisite: Junior Standing. Chemistry majors will be required to prepare and present a seminar in their junior year. Written and oral communication skills, literature search skills, and technology enhanced presentation skills will be emphasized.

CHEM 4244 Inorganic Chemistry (W) (O) 3 hours
Prerequisite: CHEM 3541/3541L. A course extending the study of Inorganic Chemistry begun in General Chemistry. The course will include topics such as current theories of atomic structure, periodic classification of the elements, group theory, bonding theory, chemical reaction, acid-base chemistry, chemistry of main group elements, coordination chemistry of the transitional elements, and crystal structures.

CHEM 4244L Inorganic Chemistry Laboratory (W) (O) 1 hour
Prerequisite: CHEM 4244. Laboratory exploring the synthesis and characterization of inorganic compounds.

CHEM 4434K Advanced Spectroscopy 4 hours
Prerequisites: CHEM 3342/3442L, CHEM 4744K. An advanced study in the theory of spectroscopy and the techniques of data interpretation. Instrumentation hardware will be studied as it pertains to its effect on data collection.

CHEM 4444K Advanced Organic Chemistry (W) 4 hours
Prerequisites: CHEM 3442/3442L, CHEM 3541/3541L. An advanced study of theoretical aspects of organic reactions, including molecular orbital theory and pericyclic reactions, kinetic isotope effects, linear free-energy relationships, and solvent effects. The lecture as well as the laboratory will emphasize data analysis and the independent use of the primary literature.

CHEM 4744K Instrumental Analysis 4 hours
Prerequisites: CHEM 2734/2743L, CHEM 3442/3442L. An integrated classroom and laboratory course emphasizing the theory and practice of the instruments of the modern analytical laboratory. Topics include a variety of spectroscopic, chromatographic, and electrophoretic techniques.

CHEM 4841K Biochemistry I 4 hours
Prerequisite: CHEM 3442/3442L. A general introduction to biochemistry followed by advanced discussion of biological macromolecules. Topics include nucleic acids, proteins, carbohydrates, lipids, and enzymes.

CHEM 4842K Biochemistry II 4 hours
Prerequisite: CHEM 4841K. An advanced study of metabolic processes. Topics include biological oxidations, electron transport, lipid metabolism, carbohydrate metabolism, and energy metabolism.

CHEM 4912 Senior Seminar (W) (O) 1 hour
Prerequisite: Senior Standing. Chemistry majors will be required to prepare and present a seminar in their senior year. Written and oral communication skills, literature search skills, and technology enhanced presentation skills will be emphasized.

CHEM 4X26 Special Topics in Chemistry
(where x = 2, 4, 5, 7 or 8 depending on topic) 2 - 4 hours
Prerequisites: Consent of instructor. Repeatable for credit. A course covering one of a variety of advanced topics which would be offered on a rotating basis. These could include Nuclear Magnetic Resonance Spectroscopy, Polymer Chemistry, Statistical Mechanics, Group Theory, Coordination Chemistry, Separation Science, and Pharmaceutical Chemistry.

CHEM 4X00L Undergraduate Research (x = 2, 4, 5, 7 or 8) 1-4 hours
(8 hours maximum)

Prerequisite: 16 hours of Chemistry. Consent of instructor. Repeatable for credit. A variable credit, independent research project conducted under the supervision of a member of the department.

CHEM 4916 Internship in the Chemical Laboratory 1 hour
(3 hours maximum)

Prerequisite: Consent of instructor. Repeatable for credit. Student will assist with preparation, grading, and supervision of a laboratory section.

COURSES IN CHINESE

CHIN 1001 Beginning Chinese 3 hours

Introduction to fundamentals of listening, speaking, reading, and writing Mandarin Chinese, with an emphasis on oral-aural communicative ability. Language lab work required.

CHIN 1002 Elementary Chinese 3 hours

Prerequisite: Chinese 1001. Continuation of Chinese 1001. Development of listening, speaking, reading, writing skills through task-based approach. Language lab work required.

CHIN 2001 Intermediate Chinese I 3 hours

Prerequisite: Chinese 1002 or equivalent. Continuation of Chinese 1002. Development of communicative skills in listening, speaking, reading, and writing Chinese, with an emphasis on oral-aural and reading skills. Language lab work required.

CHIN 2002 Intermediate Chinese II 3 hours

Prerequisite: Chinese 2001. Continuation of Chinese 2001. Development of communicative skills in listening, speaking, reading, and writing Chinese, with an emphasis on oral-aural and reading skills. Language lab work required.

CHIN 3001 Intermediate - Advanced Chinese I 3 hours

Prerequisite: Chinese 2002 or departmental permission. Continued skill development in listening, speaking, reading, and writing, with focus on expanding vocabulary, learning new characters, mastering grammatical structures, improving pronunciation, and increasing oral fluency. Idiomatic expressions introduced. Language lab work required.

CHIN 3002 Intermediate - Advanced Chinese II 3 hours

Prerequisite: Chinese 3001 or departmental permission. Continued skill development in listening, speaking, reading, and writing, with focus on expanding vocabulary, learning new characters, mastering grammatical structures, improving pronunciation, and increasing oral fluency. More idiomatic expressions introduced. Language lab work required. Class conducted in Chinese.

**CHIN 4910, 4920, 4930, 4940, 4950, 4960, 4970,
4980 Study Abroad**

1-6 hours

The Study of the Chinese language and culture in a native environment. Designed especially for students in a Study Abroad Program of the University System of Georgia.

CHIN 4990 - Special Topics

1-3 hours each

Prerequisite: CHIN 2001 and 2002, or departmental permission; Chinese 3001 and 3002 recommended. Study of an area of language, literature, or culture not fully covered in other regular courses. Topics vary and are announced in advance. May be repeated for 1, 2, or 3 credit hours for a maximum of six credits if topic is different.

COURSES IN COMPARATIVE STUDIES

CMST 3810 Introduction to Latin American Studies

3 hours

Prerequisite: Spanish 2001 or 2002 or departmental permission. An interdisciplinary course that considers Latin America and its relationship with the United States from both grass-roots and elite perspectives. A reading of Gabriel García Márquez's *One Hundred Years of Solitude* accompanies an examination of the region's significant socio-political and historical events. Taught in English.

COURSES IN PUBLIC SPEAKING

COMM 1110 Public Speaking

3 hours

Pre- or Corequisite: ENGL 1101. A course designed to help those in various speaking situations achieve methods of speaking that are natural, correct, and effective. The course also fosters an awareness of verbal and non-verbal communication within different social and social cultural contexts. NOTE: Successful completion of COMM 1110 fulfills the three-hour fine arts requirement as stated in Area C of the core curriculum.

COURSES IN COOPERATIVE EDUCATION

COOP 2000 Cooperative Education Work Experience

*Non-credit

A part-time specialized work and study program whereby students may work cooperatively with employers while pursuing academic studies. This parallel arrangement is a planned, structured experience that enhances the student's career interests and integrates hands-on experience in a chosen field. Students must register with the Office of Career Services to secure the appropriate documentation and must have approval of their academic department. Students are required to participate in a work-site evaluative process and to complete any assignments designated.

COOP 3000 Cooperative Education Work Experience *Non-credit
A full-time specialized work and study program integrated with the student's academic program and career interests, where by the student alternates full-time work with full-time studies. Before starting a work experience program, the students must meet eligibility requirements, be registered with the Office of Career Services, have the appropriate documentation, and must have the approval of the sponsoring academic department. The students are required to participate in a work-site evaluative process and complete any assignments designated.

A satisfactory/unsatisfactory grading system is used, and academic departments are the final authority on the approval of students for the program, as well as on the grading process.

COURSES IN CRIMINAL JUSTICE

CRJU 1100 is a prerequisite to all 3000-4000 level criminal justice courses.

CRJU 1100 Introduction to Criminal Justice 3 hours
This course is a general overview of the American criminal justice system. The system is composed of several relatively separate institutions which contribute to the process as a whole. Each of the major divisions (police, courts, and corrections) will be examined for its contributions, assumptions, and interrelations.

CRJU 2001 History of Criminal Justice 3 hours
This course is a historical overview of the development of the concept of criminal justice in Western civilization and the United States. The course will concentrate on the ideas and philosophies that shaped our culture and attitudes toward crime and law.

CRJU 2002 Introduction to Law Enforcement 3 hours
This course will introduce the student to issues and concepts associated with American policing. The purpose of the course is to discuss the characteristics and operational missions of federal, state, and local law enforcement agencies. Special emphasis is placed on historical influences and the conflicting roles with which the profession has struggled.

CRJU 3000 Criminal Law 3 hours
This course examines both the substantive criminal law and the procedures for its implementation. It will concentrate on the historical developments and contemporary forms of criminal definitions. This course will also deal with the more abstract concepts of responsibility and limitations on prosecutions.

CRJU 3010 Criminal Procedure 3 hours
This course focuses on the fourth, fifth, sixth and 14th amendments to the U.S. Constitution. Emphasis is on police searches and seizures as regulated by the 4th Amendment. Students will read opinions of the Supreme Court and discuss the impact of those decisions on the balance between individual liberty and societal interests.

CRJU 3310 Juvenile Justice 3 hours
This course is an overview of the juvenile justice system in America. It will explore causation, processing, and rehabilitative programs in the juvenile justice field from both historical and practical perspectives. Emphasis will also be placed on ethical and legal issues that are relevant to the processing of juvenile offenders.

CRJU 3311 Corrections 3 hours
This course acquaints students with the philosophy, processes, problems, and issues in corrections, historically and in contemporary America.

CRJU 3312 Criminology 3 hours
This course explores criminological theory and its policy implications from the late 18th century to the present. Emphasis is on social and social psychological explanations of criminality, such as differential association, anomie, labeling, and social control.

CRJU 3601: Research Methods in the Social Sciences (W, O) 3 hours
Prerequisite: MATH 2400. Cross listed as POLS 3601. This is an introductory research methods course whose purpose is to familiarize students with the language, important concepts, and processes of social science research. Students will acquire skills for understanding and critiquing research, designing a research project, collecting and coding data, and performing elementary computer data analysis.

CRJU 3602: Statistics for the Social Sciences 3 hours
Prerequisite: POLS/CRJU 3601 or SOCI 3020. Cross listed as POLS 3602. The purpose of this course is to provide an intuitive and computational orientation to the typical statistics that social science professionals encounter. This course presents the foundations of descriptive and inferential statistics, with a concentration on those specific procedures likely to be utilized by practicing social scientists (e.g., causal models), and a brief overview of multivariate techniques likely to be found in social science publications and research reports. Students will acquire skills for performing both elementary and advanced (computerized) statistical analysis, as well as interpreting and presenting statistical results.

CRJU 4000 Criminal Investigations 3 hours
This course introduces investigation methodology and includes the theory of investigation as conducted at the scene of the crime, collection, and preservation of evidence, the use of informants, techniques of surveillance, and presentation of cases in court.

CRJU 4001 Police Problems and Practices 3 hours
The problems and conflicts of urban policing are explored through contemporary scholarly research. Topics include police use of force, vehicle pursuits, corruption, domestic violence, and community-oriented policing.

CRJU 4002 Drug Identification and Investigation 3 hours
The course is to provide a basic orientation, conceptual framework, and technical vocabulary for the study of illicit drugs. The course will introduce the subject

of drug abuse, estimate the extent of the problem, and examine the relationship between drug use and crime. The course provides students with a proper grounding in the pharmacological, sociological, and criminal dimensions of the drug problem. The history of drug legislation in the United States, international and domestic drug trafficking, and drug law enforcement are examined.

CRJU 4003 Police Administration and Management 3 hours

A study of the contemporary law enforcement agency and an analysis of its organization, staffing, budgeting, control, coordination, planning, and related processes.

CRJU 4004 Criminal Forensics I 3 hours

An introduction to the problems and techniques of scientific investigations in the criminal field. Emphasis will be placed on familiarizing the student with the role of science and technology in modern law enforcement.

CRJU 4005 Criminal Forensics II 3 hours

Prerequisite: CRJU 4004. This course will examine concepts, field-tested techniques and procedures, and technical information concerning crime scene investigation. Special attention will be given to the various forensic laboratory disciplines and their respective practitioners, on the initial responding officer and the duties of the investigator, and on various types of crime scenes.

CRJU 4008 Death Investigation 3 hours

This course will introduce the student to various investigative methods utilized in general death investigation as well as specific investigations involving suicides, accidents and homicides. The purpose of the course is to explore the nature of death investigation in the United States and the methods employed by the personnel and agencies tasked with resolving cases involving death. Special attention will be given to intra- and inter-agency relationships as well as the scientific tools used in processing death investigation cases.

CRJU 4110 Ethics in Criminal Justice 3 hours

A study of morality and ethical systems and their application to the ethical dilemmas encountered within the American criminal justice system. Emphasis will be given to deontological and teleological perspectives on policy and decision making in the law enforcement, legal, and correctional systems.

CRJU 4111 Evidence 3 hours

An intensive study and analysis of the rules of evidence as they apply to criminal cases. Particular emphasis will be placed on burden of proof and hearsay evidence, as well as the principles of exclusion and selection.

CRJU 4112 Judicial Processes 3 hours

Cross-listed as POLS 4112. A systematic study of the judicial system and its role in the administration of justice.

CRJU 4120 Civil Liberties 3 hours
Cross listed as POLS 4120. An analysis of the case law surrounding the constitutional guarantees of the personal and social freedoms derived from the Bill of Rights and the 14th Amendment.

CRJU 4150 Law & Society 3 hours
Cross-listed as POLS 4150. The basic concepts and origins of the law are applied to contemporary legal issues, such as capital punishment, minority issues, crimes without victims, and the law as a weapon of social control.

CRJU 4151 Legal Research and Moot Court 3 hours
Cross-listed as POLS 4151. An introduction to legal research, analysis, and writing. The course will culminate with a simulated courtroom exercise.

CRJU 4200 Alternatives to Incarceration 3 hours
Prerequisite: CRJU 3311. An exploration into historical and contemporary approaches used in managing the offenders in lieu of places of incarceration. The course examines the rationale for such alternatives, current applications, issues and problems surrounding such programs, and their effectiveness in the correctional process.

CRJU 4210 Advanced Studies in Corrections 3 hours
Prerequisite: CRJU 3311. Studies in institution-based treatment programs and community-based treatment for pre-trial and post-trial programs are examined. Emphasis will be placed on the impact and operational aspects of these programs.

CRJU 4220 Spies and Statecraft 3 hours
Cross listed as POLS 4220. A study of the organization of the U.S. Intelligence community and selected other national intelligence services, including the People's Republic of China, Russia, and Israel.

CRJU 4300 Victimology 3 hours
An examination of the interrelationships between victims and offenders. Topics include patterns of victimization, both historically and demographically. The issues associated with governmental strategies for victim assistance and compensation will also be examined.

CRJU 4310 Criminal Typologies 3 hours
This course examines the offender characteristics and behavioral patterns of individuals who commit crimes of interpersonal violence and/or sexual assault. Emphasis will be upon the motivational beliefs of the offenders, and how these beliefs influence the manner in which they select victims and carry out their attacks. The offenses of sexual homicide, mass murder, workplace violence, serial rape, child molestation, armed robbery, and similar crimes will be the primary focus of the research and discussion in this course.

- CRJU 4340 Advanced Criminological Thought** 3 hours
Prerequisite: CRJU 3312. This course focuses on modern criminological theory from 1960 to the present. Emphasis will be on the radicals, the conservatives, and the integration of theories. Students will be expected to read the original writings of leading criminologists. This course is taught in a seminar format and recommended for upper-level students.
- CRJU 4350 Family Violence** 3 hours
An interdisciplinary examination of the main areas of family violence: spousal abuse, child abuse, sibling violence, etc. Research in the field will be reviewed and factors related to causation and prevention.
- CRJU 4360 Organized Crime** 3 hours
This course provides students with an understanding of the problem of organized crime in both the United States and on the international stage. The course examines the origins organized crime, its history, and its relationship to other social institutions and components of the criminal justice system. The structure of organized crime and the various business of organized crime are studied. Students examine many of the new emerging organized crime groups and how the criminal justice system has responded to organized crime. The course examines academic research in the area of organized crime as well as how organized crime groups have been portrayed in popular Hollywood films.
- CRJU 4400 Legal Liabilities of Criminal Justice Personnel** 3 hours
An examination of the liability issues that confront criminal justice professionals in the performance of their duties.
- CRJU 4410 Future Trends in Crime** 3 hours
This course will focus upon those factors and trends which affect and will continue to affect crime and criminal justice agencies into the 21st century. The major demographic trends discussed in this course include the aging of the American population, the dwindling pool of the young, the increased role of women both as criminals and as criminal justice personnel, and the growing ethnic and racial diversity of society and criminal justice agencies. Economic, legal, and technological trends of the future will also be examined.
- CRJU 4440 Criminal Justice Administration** 3 hours
The course includes an overview of management and administration in criminal justice agencies. The course examines organizational structure, communication, leadership, motivation, employee evaluation and supervision as well as external environmental demands and situations. There is an emphasis on the role of the criminal justice administrator in policy formulation and program development.
- CRJU 4444 Terrorism and Political Violence** 3 hours
An examination of the evolution of terrorism and political violence with emphasis on the new dimensions of terrorism and the risks to U.S. national security interests. Topics covered will include weapons of mass destruction, information-based terrorism, homeland defense, and terrorism as a transnational phenomenon.

CRJU 4500 Independent Study in Criminal Justice 3 hours
Independent study in criminology, penology, social problems, human relationships and related topics.

CRJU 4590 Special Topics in Criminal Justice 3 hours
This course will be an in-depth examination of a specialized topic in criminal justice field. The content and requirements of this course will vary depending on the instructor and the subject of the course.

CRJU 4850c Criminal Justice Internship (W) 12 hours
Students will be assigned to a criminal justice related agency to work a minimum of 320 hours. A student must have completed 18 hours of CRJU course work prior to enrollment in this course. As part of the course requirements students will prepare a “capstone” paper integrating their work and class experiences.

COURSES IN COMPUTER SCIENCE

CSCI 1100 Introduction to Computers and Information Systems 2 hours
An introductory course in computers including an overview of computer hardware and application software. Course includes laboratory experiences with word-processing, presentation software, e-mail communications, and exploration of the internet and WWW resources.

CSCI 1150 Computers and Information Systems Seminar 1 hour
Prerequisite or Corequisite CSCI 1100. This course provides an exploration of trends in computers and information systems and examines how trends influence our personal, social, and economic systems. Ethical issues regarding information and information processing will also be included as well as work with spreadsheet and database applications.

CSCI 1200 Technology and Learning 3 hours
Credit not applicable toward a computer science major or minor. An introductory course in computers and computing for teacher education majors at all levels. The course includes an overview of current computer technology, hands-on experiences with multimedia applications for instructional delivery, exploration of distance learning and internet resources, and integration of software into the instructional process. Students not proficient in Word, Excel, PowerPoint, and webpage development should take CSCI 1100 prior to enrollment in CSCI 1200.

CSCI 1250 Information Technologies 3 hours
An introductory course to methods of information retrieval, processing, and presentation. It provides an overview of computer hardware and application software used for on-line search, word processing, electronic mail and messaging, as well as tools for managing content in various formats. The course emphasizes analytical thinking and teaches problem solving skills through and introduction

to basic programming structures, such as selection and loops.

CSCI 1301 Computer Science I 3 hours

This course will cultivate critical thinking skills by presenting computer science as a problem solving discipline with emphasis in fundamentals of computer science, algorithm development and analysis, and the design, coding, debugging, and documentation of structured programs. Introduction to some software engineering concepts will also be covered.

CSCI 1301L Computer Science I Lab 1 hour

Corequisite for CS/CIS majors: CSCI 1301. This course is an applied component of CSCI 1301. Students practice the programming concepts learned in CSCI 1301 through pre-designed laboratory assignments in programming.

CSCI 1302 Computer Science II 4 hours

Prerequisite: Grade of C or above in CSCI 1301 and CSCI 1301L. This course is a continuation of the topics introduced in CSCI 1301. It extends the discussion of object-oriented programming to include interface, event handling, streams, recursion, and searching and sorting. This course will have a strong lab component.

CSCI 1371 Computing for Scientists and Engineers 4 hours

Foundations of computing with an introduction to design and analysis of algorithms and an introduction to design and construction of programs for scientific and engineering problem-solving.

CSCI 2100 Technology in Mathematics 2 hours

Prerequisite: Grade of C or above in MATH 2450. Credit not applicable to computer science major or minor. A course to develop skills in use of technology in the teaching and learning of mathematics. Laboratory experiences include use of Maple, Mathview, Excel, the Geometer's Sketchpad, Netscape, graphing calculators, CBL equipment and other current technology appropriate for mathematics instruction at the secondary level.

CSCI 2150 Computer Ethics and Social Issues 3 hours

Prerequisite: CSCI 1302. This course introduces the student to the social impact of computers and software. Topics include professional responsibilities related to copyright, software protection, and privacy.

CSCI 2700 Object-Oriented Systems 3 hours

Prerequisite: Grade of C or above in CSCI 1302. In this course the students will be introduced to the concepts of Object-Oriented Programming as a means of problem solving. The topics include classes, objects, modeling techniques, inheritance, abstract data types, information hiding, polymorphism, modularity, messages, and reusability.

CSCI 3000 Web Programming 3 hours

Prerequisite: Grade of C or above in CSCI 1302. An introduction to various techniques in client and server-side scripting; topics include dynamic web pages, CGI,

interpreted vs. compiled code, and server-side includes. The course also covers recent trends in world-wide web standards, electronic commerce applications, and web services. The course requires a substantial amount of programming.

CSCI 3050 Information Security 3 hours

Prerequisite: Grade of C or above in CSCI 1302. An introduction to information systems security issues; topics include threats, vulnerabilities, controls, encryption, and risk assessment. The course also covers security in programs, operating systems security, database security, security in networks, administrative security, computer crime, and threats to privacy. The course requires some programming.

CSCI 3100 Computer Organization and Architecture 3 hours

Prerequisite: Grade of C or above in CSCI 1302. The course covers both the organizational and architectural levels of computer systems. The topics of the course include instruction sets, addressing, microprogramming, memory, I/O, interrupts and data paths. Multicomputers, multiprocessors, pipeline computers, supercomputers, CICS and RISC architectures will also be covered.

CSCI 3200 Data Structures 3 hours

Prerequisite: Grade of C or above in CSCI 2700. The course covers the structure of data and algorithms. Topics covered include sorting, searching, updating, hashing techniques, advanced tree structures and a more formal and in-depth treatment of the topics included in CSCI 2700. An introduction to complexity analysis will also be covered.

CSCI 3250 Computer Security 3 hours

Prerequisites: CSCI 1302. This course covers several security topics pertaining to real-life systems currently deployed and commonly used in Internet computing environments. Materials covered include program security issues, database security issues, and operating systems security issues.

CSCI 3300 Systems Analysis and Design (W) 3 hours

Prerequisite: Grade of C or above in CSCI 1302. The course introduces techniques of analysis and design of business application systems through the use of CASE tools. Topics include Data Flow Diagrams (DFD), Data Dictionaries (DD), Entity Relationship Diagrams (ERD), structure charts, and object-oriented analysis and design tools. The course will also cover project planning and control and cost benefit analysis. A case study is required for this course.

CSCI 3350 Computer Forensics 3 hours

Prerequisite: CSCI 1302. Topics include file types (text, image, compressed, encrypted), operating systems basics, discovery of digital evidence, computer forensics tools, network basics, network tracing, network log files, network sniffing/trapping, legal issues, case studies, computer forensics procedures.

CSCI 3400 Database Principles 3 hours

Prerequisite: Grade of C or above in CSCI 1302. This course covers the analysis

and design techniques of relational and object-oriented databases. Topics include entity relationship modeling, semantic object modeling, database design using ERD and semantic object models, integrity constraints, normalization, structured query languages, concurrency control, and distributed database processing.

CSCI 3500 Management Information Systems 3 hours
Prerequisite: Grade of C or above in CSCI 1302 and MGMT 3661. This course covers the analysis of information to support operations, management analysis, and decision-making functions in an organization. Topics include planning, control, and development of computer-based information systems in the organization; and management of the hardware, software, data, and the resources of the organization.

CSCI 3600 Computer Graphics 3 hours
Prerequisite: Grade of C or above in CSCI 2700. The main focus of this course is to provide an introduction to interactive computer graphics. A large component of the class will consist of writing a large-scale graphics program using a high-level language. Topics include machine-independent graphics, graphics standards, a survey of applications, use of graphics libraries, output devices, appropriate data structures, and mathematical manipulation of graphical objects.

CSCI 3800 Introduction to UNIX 3 hours
Prerequisite: Grade C or above in CSCI 1301. A survey of UNIX commands, file systems, shells, basic scripting, and applications. The course involves hands-on programming and laboratory exercises.

CSCI 3810 System Administration 3 hours
Prerequisite: Grade C or above in CSCI 3800. Topics include installation, configuration, and maintenance of various operating systems. Students are required to install and configure servers from start to finish.

CSCI 3900 Selected Topics 1-3 hours
Prerequisite: Grade C or above in CSCI 1302. Advanced topics in a special area of computer science.

CSCI 4000 New Media Design 3 hours
Prerequisites: CSCI 1301. Includes applications of technologies to display sophisticated text, graphics, animation, and video for new media such as the Web. This course includes the design and development of a major media project and is the capstone course for the minor in new media design and communication.

CSCI 4100 Operating Systems and File Organization 3 hours
Prerequisite: Grade of C or above in CSCI 3100 and CSCI 3200. This course provides an introduction to operating system concepts and file organization. Topics include processes, process coordination and synchronization, physical and virtual memory management, CPU scheduling, concurrent processes, and comparison of some operating systems. File systems and file organization are also covered.

CSCI 4200 Programming Languages 3 hours

Prerequisite: Grade of C or above in CSCI 1302. This course provides a comparative study of the various features of programming languages including data typing, sequence control, data structure implementation, and run-time storage management. It also covers the language constructs that support distributed and parallel computing as well as application of these constructs in parallel and distributed computing.

CSCI 4300 Theory of Computation 3 hours

Prerequisite: Grade of C or above in CSCI 4200. This course introduces the theory of computability, automata, and formal languages. Topics include regular expressions, context-free and context-sensitive grammar, Turing machines, recursive functions, lambda calculus, and formal program semantics.

CSCI 4400 Software Engineering 3 hours

Prerequisite: Grade of C or above in CSCI 3200. This course introduces the students to the principles of software methodology and engineering. Topics include specification, design, testing, and maintenance of software systems. Documentation style, team organization, software verification and validation, and security and protection are also covered.

CSCI 4500 Data Communications 3 hours

Prerequisite: Grade of C or above in CSCI 1302. This course covers fundamentals of computer and data communication in some detail. Topics include data transmission protocols and architecture, guided and unguided transmission media, data encoding techniques, data communication interfaces, data link controls, multiplexing, and local area networks. It also covers the Open System Interconnection model.

CSCI 4510 Network Administration 3 hours

Prerequisite: Grade of C or above in CSCI 4500. Topics include network configuration, integration of LANs and WANs, routers, switches, and network access servers. Special attention is paid to aspects of security, access control, and problem determination/troubleshooting.

CSCI 4600 Parallel Processing 3 hours

Prerequisite: Grade of C or above in CSCI 4100. The course illustrates how parallelism can yield significant speed-up in comparison with sequential execution. Topics include concurrency and synchronization, architectural support, programming language constructs for parallel computing, parallel algorithms and complexity, load balancing, and scheduling. Different parallel architectures (e.g., MIMD, SIMD, and array processors) will also be included.

CSCI 4650 Network Security 3 hours

Prerequisites: CSCI 3050 and CSCI 4500. This course covers IP security with an in-depth treatment of authentication, email security, web security, network management security, intruders, malicious software, firewalls, etc.

CSCI 4700 Graphical User Interface Design 3 hours
Prerequisite: Grade of C or above in CSCI 1302. This course teaches the fundamentals of GUI (Graphical User Interface) design. Major topics include objectives of the GUI interface, the GUI design process, objects and actions, elements of an interface, and manipulating objects. The course also teaches the various components and behavior of graphical user interfaces including windows, controls, manipulation, and application flow. A hands-on practical lab is an essential component of this course.

CSCI 4750 Data Modeling 3 hours
Prerequisite: Grade of C or above in CSCI 3400. A continuation of CSCI 3400. Topics include database languages, security systems, transaction management, query processing, distributed DBMSs, object-oriented DBMSs, Web technology, and data warehousing.

CSCI 4800 Artificial Intelligence 3 hours
Prerequisite: Grade of C or above in CSCI 3200. The course teaches fundamentals of artificial intelligence. The topics include expert systems, natural languages, robotics, planning, speech, and vision.

CSCI 4900 Independent Study 1-3 hours
Prerequisite: Approval of the instructor and the department head. Independent study under the direction of a faculty member. Topics covered will include areas not regularly offered as part of the program. May be repeated for credit.

CSCI 4910 Internship in Computer Science 1-3 hours
Prerequisite: Junior or senior status and approval of the department head. Hands-on experience in the area of computer science through a combination of scheduled seminar discussion groups and supervised experience. May be repeated for credit.

CSCI 4950 Senior Project (W) (O) 3 hours
Prerequisite: Grade of C or above in CSCI 3300 and senior standing. This course is designed for Computer Science majors who are within one semester of graduation. It is a capstone course integrating the analysis and skills acquired from the previous courses in computer science and the student's area of concentration.

COURSES IN EARLY CHILDHOOD EDUCATION

Admission to Teacher Education is required for enrollment in the following course:

ECED 3001 Childhood Development 3 hours
This course examines the roles played by heredity, maturation, and experience in the social, emotional, physical, and intellectual development of children from the prenatal period through middle childhood. Observation experiences of school and/or school-aged children are required.

COURSES IN ECONOMICS

[R] Restricted to students who meet Enrollment Eligibility Requirements (pp.113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

ECON 2105 Principles of Macroeconomics 3 hours
Prerequisite: Completion of math requirement in Area A. A principles of economics course intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies. Specific topics covered include economic institutions of American capitalism, employment theory, fiscal policy, money and banking, monetary policy, and economic growth.

ECON 2105H Honors Principles of Macroeconomics 3 hours
Prerequisite: completion of math requirement in Area A. A principles of economics course intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies. Specific topics covered include economic institutions of American capitalism, employment theory, fiscal policy, money and banking, monetary policy, and economic growth. Acceptance into the NGCSU Honors Program or permission of instructor is required.

ECON 2106 Principles of Microeconomics 3 hours
Prerequisite: Completion of math requirement in Area A. A principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze structure and performance of the market economy.

ECON 3299 Special Topics in Economics [R] 1-6 hours
An in-depth examination of an economics topic. The course may be an independent study under the supervision of a member of the economics faculty or may be a formal class. The content and requirements of this course will vary depending

on the instructor and the subject of the course. This course is repeatable for up to 6 hours credit.

ECON 3441 Money and Banking [R] 3 hours

A study of the basic principles and concepts of money and credit and their importance in the present economy. The major topics emphasized are the commercial banking system, central banking as a means of expanding and stabilizing the supply of money and credit, monetary theory, monetary and fiscal policies, international banking and finance, and other banking and credit institutions.

COURSES IN EDUCATION- INTRODUCTORY, SECONDARY AND P-12 EDUCATION PROGRAMS

EDUC 2110 Investigating Critical and Contemporary Issues

In Education

3 hours

As professionals, educators must be informed and be knowledgeable of the issues that are critical to the overall functioning of their schools. This course is designed to explore the critical issues that are presently influencing policy and practice today on the national and state levels. In order to understand the significance of these issues, a historical and philosophical investigation will also be undertaken.

EDUC 2120 Exploring Socio-Cultural Perspectives

3 hours

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 & Learning

3 hours

Students will explore key aspects of learning and teaching through examining their own learning processes and those of others, with the goal of applying their knowledge to enhance the learning of all students in a variety of educational settings and contexts.

Secondary Education (English, Mathematics, Biology, Chemistry, Physics, and History) students major in their academic departments as do those in the P-12 programs (Modern Languages, Art, Music and Physical Education). Programs of study are listed with the appropriate academic department. The following courses require admission to teacher education and are included in many of those programs of study.

EDUC 3002, 3003, 3003L and LART 3106 are required in most P-12 and 6-12 programs. Check with your advisor for details.

EDUC 3002 Educational Assessment 2 hours
Co-Requisite requirement for P-12 and 6-12 programs: EDUC 3003 and 3003L. This course is an introduction to the principles of sound classroom assessment, which shows how these principles apply to classroom decision-making. Students will learn how to develop classroom assessments that are appropriate for the age and type of learner and match the objectives of instruction. Interpreting the standardized tests that are used in the public schools will also be covered.

EDUC 3003/3003L Classroom Management 2 hours, 1 hour lab
Co-Requisite requirement for P-12 and 6-12 programs: EDUC 3002. This course is designed to provide classroom teachers with an opportunity to learn the design and organization of effective classroom settings. An emphasis on the planning and demonstration of effective management skills in diverse public school settings occurs. Lab requires a 3-hour per week school placement.

EDUC 3010 Educational and Community-Based Interventions for Students at Risk 3 hours
A study of intervention practices for students who are at risk as a result of language, cultural, economic, social, or emotional factors. Intervention strategies for individuals, classrooms, schools, and communities will be addressed.

EDUC 3300 Integrated Social Studies 3 hours
Study of basic techniques in the teaching of social studies and language arts learning in grades P-8 and the various instructional materials used at those levels is placed on multicultural literature and other interdisciplinary connections. Directed observation in selected schools is required.

EDUC 3500 Professionalism, Supervised Field Laboratory I 4 hours
This course provides a field experience in a diverse setting, focusing on preschool, kindergarten and early grades development and reading instruction. A minimum of 15 hours per week in a (daytime) school setting is required.

EDUC 3501 Professionalism, Supervised Field Laboratory II 4 hours
This course provides a field experience in a diverse setting, focusing on elementary and upper elementary development and mathematics instruction. A minimum of 15 hours per week in a (daytime) school setting is required.

EDUC 3540 Applied Classroom Data Analysis 3 hours
This course requires preservice teachers in their final semester of training to demonstrate skills in data collection and analysis. Students will demonstrate their ability to bring diverse groups of elementary school students to high levels of learning and communicate those outcomes through a variety of formal and informal oral and written modes. In addition, preservice teachers will be required to validate their own professional development through completion and presentation of portfolio projects.

EDUC 4000 - Curriculum (P-12 / 6-12) 4 hours
Study of the problems in planning for and executing appropriate learning experiences for learners in P-12 and 6-12 classrooms. Extensive daytime directed observation and participation in area schools is required. Prerequisite, EDUC 3002, 3003, 3003L. Co-requisites appropriate methods course, which varies by program. Offered fall only.

EDUC 4001 Methods and Materials, Early Childhood 3 hours
Study of basic techniques involved in the effective guidance of learners in early childhood classrooms and various instructional materials adapted for use at these levels. Extensive daytime observation and participation in area schools is required.

EDUC 4060 Problems in Curriculum and Methods 1-3 hours
Research done independently or in groups on problems pertinent to the field. Open to seniors and in-service teachers.

EDUC 4101 - Methods and Materials (P-12, 6-12) 3 hours
Study of basic techniques involved in the effective guidance of learners in P-12 and 6-12 classrooms and various instructional materials adapted for use at these levels. Extensive daytime directed observation and participation in area schools is required. Co-requisite: EDUC 4000. Offered fall only.

EDUC 4103 P-12/6-12 Internship Planning 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4104 P-12 Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4105 P-12/6-12 Internship Professionalism 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4203 ECE Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4204 ECE Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4205 ECE Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4303 Middle Grades Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4304 Middle Grades Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4305 Middle Grades Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4403 SPED Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4404 SPED Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4405 SPED Internship Performance 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

EDUC 4503 Internship - Planning 3 hours
Internship for specific teaching fields. Prerequisites include: scholastic standing of at least 2.75; completion of all professional education courses with a grade of C or better; enrollment at NGCSU for at least two semesters; and written application two semesters in advance.

COURSES IN ENGLISH

ENGL 1101 English Composition I 3 hours
A composition course that focuses on skills required for effective writing and reading in a variety of diverse nonfiction contexts. This course emphasizes exposition, analysis, and argumentation, and also includes an introduction to research skills.

ENGL 1102 English Composition II 3 hours
Prerequisite: English 1101 with a grade of C or better. A composition course that develops writing skills beyond the levels of proficiency required by ENGL 1101. This course emphasizes interpretation and evaluation of texts, increased stylistic sophistication, and the application of more advanced research methods.

ENGL 2050 Standard English Grammar 3 hours
Prerequisite: English 1102 with a grade of C or better. An introductory study of structural grammar and standard english usage.

ENGL 2111 World Literature I 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of world literature from the beginnings through the seventeenth century.

ENGL 2112 World Literature II 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of world literature from the eighteenth century to the present.

ENGL 2121 British Literature I 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of British literature from the beginnings through the eighteenth century.

ENGL 2122 British Literature II 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of British literature from the nineteenth century to the present.

ENGL 2131 American Literature I 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of American literature from the beginnings through the Civil War.

ENGL 2132 American Literature II 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of American literature from the Civil War to the present.

ENGL 2135 African American Literature 3 hours
Prerequisite: English 1102 with a grade of C or better. A survey of African American texts from the slave narrative to contemporary poetry and fiction, exploring issues of identity and political and social agency.

ENGL 2140 Introduction to Gender Studies: Gender and Literature 3 hours
Prerequisite: English 1102 with a grade of C or better. A chronological study of literary texts with a focus on gender and its relationships to economics, religion, politics, art and culture.

ENGL 2230 Intermediate Composition (W) 3 hours
Prerequisites: ENGL 1101 and 1102 with a grade of C or better and a 2100-level literature survey course. Introduction to a variety of academic, professional and public genres. Emphasis is placed on evaluating and integrating various kinds of evidence. The course considers the composing process in light of rhetorical theory, current research in writing, and technological advancements.

ENGL 2238 Business Communication (W) (O) 3 hours
Prerequisites: ENGL 1101 and ENGL 1102 with a grade of C or better, keyboarding skills, and ability to use a word processing software program. Introduction to communication theory and principles and their applications to business documents and presentations. Extensive practice in writing and articulating ideas clearly, accurately, creatively, and ethically in business environments.

ENGL 2270 Creative Writing (W) 3 hours
Prerequisites: ENGL 1101 and ENGL 1102 with a grade of C or better. A course on creative writing- poetry, prose, and drama-with concern for the relation of form to content, viewpoint, narrative voice, audience, syntax, imagery, and diction.

ENGL 2660 Introduction to Film Studies 3 hours
Prerequisite: ENGL 1102 with a grade of C or better. An introduction to the history and the art of film through readings, screenings, and discussion.

ENGL 3010 History of the English Language 3 hours
Prerequisite: A 2100-level literature survey course and ENGL 2050 with a C or better or exemption of ENGL 2050 by departmental exam. A detailed introduction to the background, origins, development, and structure of the English language and the fundamental tools and concepts used in the study of a language's history.

ENGL 3020 English Linguistics 3 hours
Prerequisite: A 2100-level literature survey course and ENGL 2050 with a C or better or exemption of ENGL 2050 by departmental exam. An introductory course on English linguistics, providing the foundation for further study in linguistics

and/or for teaching English to speakers of other languages.

ENGL 3050 Applied English Grammar 3 hours
Prerequisites: ENGL 1102, a 2100-level literature survey course and ENGL 2050 with a C or better or exemption of ENGL 2050 by departmental exam. Assumes a mastery of prescriptive English grammar. A study of the grammatical structure of English in relation to rhetorical and logical structures. The course introduces theories of structural linguistics, transformational-generative grammar, and rhetorical grammar.

ENGL 3120 Introduction to Rhetorical Theory (W) 3 hours
Prerequisites: ENGL 1102, 2100-level literature survey course, ENGL 2230 and ENGL 2050 with a C or better or exemption of ENGL 2050 by departmental exam. An introductory survey of rhetorical theory, with an emphasis on theories of political and civic discourse. Intensive study of classical and contemporary rhetoric, with some attention to theory from other historical periods. Works from the traditional canon of Western rhetoric and works that represent alternative Western traditions will be studied.

ENGL 3130 Advanced Composition (W) 3 hours
Prerequisites: ENGL 1101 and 1102 with a grade of C or better, a 2100-level literature survey course, and ENGL 2230. Intensive analysis of and practice in writing varieties of creative nonfiction with attention to different audiences, purposes, and contexts. Emphasis is placed on exploring new genres and writing with increased effectiveness and sophistication. The course considers the writing process in light of the history of rhetoric and rhetorical theory (including principles of visual rhetoric), current research in composition studies, and changing writing technologies.

ENGL 3140 Literary Research and Writing (W) (O) 3 hours
Prerequisites: ENGL 1102; English or English Education Major, or departmental permission. A study of research methods and writing strategies essential to the criticism and interpretation of literary texts. Practice in writing and making public presentations on literary topics.

ENGL 3160 Technical and Professional Writing (W) 3 hours
Prerequisites: ENGL 1101 and 1102 with grade of C or better and 2100-level literature survey course. Study of the principles and practices of technical and professional writing, with several individual and group projects, typically related to the student's field of study.

ENGL 3170 Advanced Creative Writing (W) 3 hours
Prerequisites: ENGL 1101 and 1102 with a grade of C or better, a 2100-level literature survey course, and ENGL 2270. Advanced study of creative writing-poetry, prose, and drama-with concern for the relation of form to content, viewpoint, narrative voice, audience, syntax, imagery, and diction.

- ENGL 3190 Introduction to Publishing (W)** 3 hours
Prerequisite: An ENGL 2100- or 2200-level course. Introduction to the culture of and careers in publishing, providing broad professional knowledge of acquisitions, editing, design, publicity and rights. Editorial principles, production, marketing problems, distribution methods and informational systems and techniques will be discussed. Literary tastes in publishing will also be examined.
- ENGL 3220 Poetry and Poetics (W)** 3 hours
Prerequisite: A 2100-level literature survey course. A study of poetry, approaches to poetry, and theories of poetry.
- ENGL 3230 The Novel (W)** 3 hours
Prerequisite: A 2100-level literature survey course. Studies in the development of prose fiction from the eighteenth century to the present.
- ENGL 3240 The Short Story (W)** 3 hours
Prerequisite: A 2100-level literature survey course. A study of short stories from various cultures. The course emphasizes recognition of recurrent formal and thematic patterns, and introduces methods of literary interpretation and analysis appropriate to understanding and teaching the short story.
- ENGL 3250 World Drama (W)** 3 hours
Prerequisite: A 2100-level literature survey course. A comprehensive study of the theatrical literature of the world, from ancient through modern.
- ENGL 3260 Creative Nonfiction (W)** 3 hours
Prerequisite: A 2100-level literature survey course. A study of the "fourth genre," creative nonfiction, with emphasis on formal analysis, the history of the genre, and its variations across cultures.
- ENGL 3300 Mythology (W)** 3 hours
Prerequisite: A 2100-level literature survey course. An introduction to the mythologies of the world and the uses that writers make of them.
- ENGL 3340 Women Writers in World Literature (W)** 3 hours
Prerequisite: A 2100-level literature survey class. A study of the literary representation and self-representation of women and the question of the female identity-in a cultural, social, and psychological sense-in world literature. The class will encompass works from the 8th century to the present. After a brief overview of gender theory, the course will offer students an understanding of how countries, cultures and individuals approach the formation of an identity.
- ENGL 3350 Postcolonial World Literature (W)** 3 hours
Prerequisite: A 2100-level literature survey course. A study of the question of identity-both personal and national-in postcolonial works around the globe. Postcolonial literature occurs at different times for different countries (and cultures), but the majority of the literature will be in the modern era. After a brief overview of the colonial mindset, including such concepts as mimicry and the

Other, the course will offer students an understanding of how countries, cultures, and individuals approach the formation of an identity that is both separate from and linked to the former colonizer.

ENGL 3410 Medieval English Literature (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of major works of Old and Middle English literature.

ENGL 3430 English Renaissance (W) 3 hours

Prerequisite: A 2100-level literature survey course. An examination of English Renaissance prose, poetry, and/or drama, exclusive of Shakespeare.

ENGL 3450 English Literature of the Restoration and the Eighteenth Century (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of major British writers from 1660 to 1789.

ENGL 3460 English Literature of the Nineteenth Century: Romanticism (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of Romanticism as a literary, social, and historical phenomenon.

ENGL 3470 English Literature of the Victorian Era (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of the major writers in both prose and poetry in the context of the social conditions in England from 1832 to 1900.

ENGL 3480 Modern and Contemporary British Literature (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of the major writers in both poetry and prose in the context of the social and political conditions in England beginning from the twentieth century.

ENGL 3650 Early American Literature (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of American literature and literary culture during the Colonial and Early National Periods, with emphasis on the Enlightenment and on development of the gothic, picaresque, and sentimental novel in America.

ENGL 3660 American Romanticism (W) 3 hours

Prerequisite: A 2100-level literature survey course. American prose and poetry between 1820 and 1860 with emphasis on Emerson, Hawthorne, Thoreau, Melville, and Whitman.

ENGL 3670 American Realism and Naturalism (W) 3 hours

Prerequisite: A 2100-level literature survey course. A study of major works of American literary realism and naturalism.

ENGL 3675 Modern American Literature (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of American texts written between 1900 and 1945/50 as part of the Modernist movement.

ENGL 3680 Contemporary American Literature (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of American Literature from 1950 to the present, including texts, authors, and literary trends of the contemporary period.

ENGL 3910 Tutoring Composition 2 hours
Prerequisite: English 3050 or Writing Center director's approval and a 2100-level literature survey course. A practicum which provides instruction and supervised practice in skills and techniques to be used in one-on-one or small group tutorials and teaching.

ENGL 3915 Tutoring Composition II 1 hour
Prerequisite: English 3910. A practicum that provides advanced instruction and practice in skills and techniques to be used in one-on-one or small group tutorials and teaching.

ENGL 3925 Tutoring Composition III 3 hours
Prerequisite: English 3910 & 3915. A practicum that provides advanced instruction and practice in skills and techniques to be used in one-on-one or small group tutorials and teaching.

ENGL 4100 Selected Topics in Writing (W) 3 hours
Prerequisites: ENGL 1101 and ENGL 1102 with a grade of C or better, a 2100-level literature survey course, and ENGL 2230: Intermediate Composition. Intensive analysis of and practice in a selected topic in writing. Emphasis is placed on writing professionally for publication and on professional and community outreach.

ENGL 4160 Technical Writing Internship 3 hours
Prerequisite: English 3160 or departmental permission. An internship which allows students to utilize and develop writing skills in a professional setting. During the internship, students will be responsible for attending the weekly group meeting with the instructor, arriving at their work site on time and prepared for the day's task, and keeping a daily log of their activities at their designated jobs. At the end of the internship, students will write an evaluation of their experience, including an evaluation of the particular establishment at which they worked.

ENGL 4411 Chaucer (W) 3 hours
Prerequisite: A 2100-level literature survey course. The major works of Chaucer, with emphasis on the Canterbury Tales, all studied in the original Middle English.

ENGL 4431 Shakespeare I (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of the tragedies and romances with a focus on their historical contexts and on the major interpretive approaches.

ENGL 4432 Shakespeare II (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of the histories and comedies with a focus on their historical background and on the major interpretive approaches.

ENGL 4435 Shakespeare (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of both Elizabethan and Jacobean Shakespeare. This course will include selections from Shakespeare's Comedies, Histories, Tragedies, Romances, and poetry. The focus of the course will be upon historical backgrounds and the major interpretive approaches.

ENGL 4441 Milton (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of Milton in the context of his classical background and late Renaissance environment. Major emphasis on the poetry.

ENGL 4437 Exploring Literary London and England 3 hours
A course that seeks to introduce the student to the literary and historical world of Renaissance London through lecture, readings, and one-week trip to London for a first-hand archeo-literary experience.

ENGL 4441 Milton (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of Milton in the context of his classical background and late Renaissance environment. Major emphasis on the poetry.

ENGL 4640 Literature of the American West (W) 3 hours
Prerequisite: A 2100-level literature survey course. An in-depth study of texts written west of the 100th meridian. Major categories to be studied are Native American writing, Chicano writing, environmental literature and nature writing, texts of the Western exploration and the "Manifest Destiny" tradition, texts of the intermountain and urban west, as well as classic "Westerns."

ENGL 4651 Seminar in 19th Century American Literature (W) 3 hours
Prerequisite: A 2100-level literature survey course. Detailed study of a body of texts, literary movements, author(s), or themes in nineteenth-century American literature not otherwise covered in other course offerings.

ENGL 4652 Seminar in 20th Century American Literature (W) 3 hours
Prerequisite: A 2100-level literature survey course. Detailed study of a body of texts, literary movements, author(s), or themes in twentieth-century American literature not otherwise covered in other course offerings.

ENGL 4685 Readings in American Cultures (W) 3 hours
Prerequisite: A 2100-level literature survey course. A study of literatures from a variety of non-mainstream American cultures, including an examination of texts, authors, and themes from these literatures.

ENGL 4690 Southern Literature (W) 3 hours
Prerequisite: A 2100-level literature survey course. An examination of the literature of the South with a background study of the literary trends of the nineteenth century and a concentration on writers of the Southern Renaissance and beyond.

ENGL 4810 Seminar in English: Selected Topics 1-3 hours
Prerequisites: Permission of the instructor and a 2100-level literature survey course. A detailed study of a body of texts which encompass a literary movement, theme, or trend not covered in other catalog listings.

ENGL 4820 Seminar in English: Selected Topics 1-3 hours
Prerequisites: Permission of the instructor and a 2100-level literature survey course. A detailed study of a body of texts which encompass a literary movement, theme, or trend not covered in other catalog listings.

ENGL 4830 Seminar in English: Selected Topics 1-3 hours
Prerequisites: Permission of the instructor and a 2100-level literature survey course. A detailed study of a body of texts which encompass a literary movement, theme, or trend not covered in other catalog listings.

ENGL 4880 Senior Seminar in English: Writing (W) (O) 3 hours
Prerequisites: At least 18 hours of upper-level credit in the English major. It is recommended that students take the Senior Seminar in their final semester at NGCSU; however, to accommodate unusual circumstances, advanced students may request instructor's permission to take the class as juniors. This is the capstone class for the English Major with a Writing Concentration. Review of training in scholarship, review of personal writing portfolio, extensive discussion of writing theory and preparation for professional careers as well as graduate school. Development of a sound sense of identity as a professional in writing.

ENGL 4890 Senior Seminar in English: Literature (W) (O) 3 hours
Prerequisites: At least 18 hours of upper-level credit in the English major. It is recommended that students take the Senior Seminar in their final semester at NGCSU; however, to accommodate unusual circumstances, advanced students may request to take the class as juniors. The capstone class for the English Major with a Literature Concentration. Review of training in scholarship, review of personal reading schedules, extensive discussion of literary theory and preparation for professional careers as well as graduate school. Development of a sound sense of identity as a professional in the field of English.

ENGL 4901 Teaching English 3 hours
Prerequisites: A 2100-level literature course, ENGL 3050, admission to the Teacher Education program, and concurrent enrollment in EDUC 4000. A course

for students preparing to be English teachers. Students will learn about methods and materials for teaching reading, writing, and speaking in grades 6-12, including the use of technology. Students will analyze and assess student writing, design an English course, and demonstrate effective teaching. Students will also observe English classes in the public schools, under direction of the professor.

ENGL 4910 Teaching Internship in Freshman Composition (First Experience) 1 hour
Prerequisites: Completion of 2100-level literature surveys and permission of the instructor. An initial practicum that provides instruction and practice in skills and techniques to be used in teaching students to write coherent and cohesive arguments, to use standard English grammar, and to become critical readers and thinkers.

ENGL 4920 Teaching Internship in Writing About Literature (Second Experience) 1 hour
Prerequisites: ENGL 4910 and permission of the instructor. An initial practicum that provides instruction and practice in skills and techniques to be used in teaching students the writing-intensive approach to literature.

ENGL 4930 Teaching Internship in Advanced English Studies I (Third Experience) 1 hour
Prerequisites: ENGL 4910 and 4920 and permission of the instructor.

ENGL 4940 Teaching Internship in Advanced English Studies II (Fourth Experience) 1 hour
Prerequisites: ENGL 4910, 4920, and 4930 and permission of the instructor.

ENGL 4950 Composition Studies for Teachers (W) 3 hours
Prerequisites: ENGL 3050 and 3100. A study of composition theory and its application to the teaching of composition. Students will analyze and assess student essays and design a writing course and program.

ENGL 4960 Internship 3 hours
Prerequisite: Junior or Senior status and the approval of the department head. Practical experience and written reflection in a seminar setting. May be repeated for credit.

COURSES IN ENGINEERING **Taught at North Georgia College & State University**

ENGR 1000 Introduction To Engineering 2 hours
An introduction to what engineering is and what engineers do. The engineering approach to the solution of technical problems.

ENGR 1770 Visual Communication and Engineering Design 3 hours
Introduction to visual communication, engineering graphics and visualization including sketching, line drawing, simple wire frame and solid modeling. Development and interpretation of drawings and specifications for product realization.

ENGR 2001 Statics 3 hours
Prerequisite: MATH 2460 and PHYS 2211. Elements of statics in two and three dimensions, free-body diagrams, distributed loads, centroids, friction. Two class hours per week.

ENGR 3200 Dynamics I 3 hours
Prerequisite: ENGR 2001. Kinematics and dynamics of particles and rigid bodies in one, two, and three dimensions. Work-energy and impulse-momentum concepts. Three lecture-recitations per week.

COURSES IN FINANCE

[R] Restricted to students who meet Enrollment Eligibility Requirements (p. 113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

FINC 3440 Principles of Finance 3 hours
Prerequisites: ACCT 2101 & ECON 2106. A study of financial concepts with emphasis on understanding how the principles of financial management can be used to enhance the value of a firm. Topics include the time value of money, valuation models for bonds and stocks, the relationship of risk and rate of return, capital management fundamentals, and financial statement analysis. This course should be taken early in the junior year.

FINC 3490 Personal Finance 3 hours
Prerequisites: Completion of math requirement in Area A and junior or senior status. A study of a use of individual funds, including budgeting, mortgages, insurance, equity investments, debt investments, mutual funds, asset allocation, and retirement. Significant on-line research is required. A course available to students from any major; for business majors, the course is an elective.

FINC 3499 Special Topics in Finance [R] 1-6 hours
An in-depth examination of a finance topic. The course may be an independent study under the supervision of a member of the finance faculty or may be a formal class. The content and requirements of this course will vary depending on the instructor and the subject of the course. The course is repeatable for up to 6 hours credit.

FINC 4410 Derivative Securities and Risk Management [R] 3 hours
Prerequisite: FINC 3440. A study of derivative securities, which are contracts whose values depend on the prices of underlying assets, such as equities, debt, currencies, and commodities. The course focuses on the application and valuation of derivative securities, such as options, forwards, futures, and swaps. The course also emphasizes the use of derivative securities by corporations and financial institutions to manage risk.

FINC 4420 Real Estate Finance [R] 3 hours
Prerequisite: FINC 3440. A course that covers topics on the theory and practice of financing real estate acquisitions. The course content emphasizes the development, origination and underwriting of residential mortgages. In addition, the course presents the mechanics of the secondary mortgage markets.

FINC 4430 Management of Financial Institutions [R] 3 hours
Prerequisite: ECON 3441. A study of the management of financial institutions in a dynamic environment. The major topics emphasized include managing risk associated with fixed income securities, the regulatory environment facing financial institutions, measuring financial institution performance, and the credit function. Special emphasis will be given to commercial banking firms.

FINC 4440 Corporate Finance [R] 3 hours
Prerequisites: FINC 3440 & ECON 3441. A study of corporate working capital management and capital budgeting. The application of techniques is emphasized through case analysis and computer simulation.

FINC 4460 Public Finance [R] 3 hours
A study of the principles and techniques of government debt, specific tax and non-tax revenues, and expenditures at the national, state, and local levels.

FINC 4470 Investment Management [R] 3 hours
Prerequisites: FINC 3440 & ECON 3441. A study of the techniques, vehicles, and strategies for implementing investment goals in light of risk-return tradeoffs. Focuses both on individual securities and on portfolios of securities.

FINC 4480 Financial Policy [R] 3 hours
Prerequisites: FINC 3440 & ECON 3441. A study of corporate cost of capital, capital structure, dividend policy, debt and equity issuance, and mergers and acquisitions. The application of techniques is emphasized through case analysis and computer simulation.

COURSES IN FRENCH

FREN 1001 Beginning French 3 hours

Prerequisite: none. An introduction to Francophone culture and to the fundamentals of hearing, speaking, reading, and writing French. Designed for those who have not studied French before or who need a review. Language laboratory assignments. Active classroom use of the language. Not open to native speakers. French 1002 or higher strongly recommended for highly proficient speakers of French.

FREN 1002 Elementary French 3 hours

Prerequisite: French 1001, two years of high school language, or placement. A continuation of FREN 1001 introducing new vocabulary and basic structures through contextualized, active language use. Further study of Francophone culture at the elementary level. Language laboratory assignments. Not open to native speakers.

FREN 2001 Intermediate French I 3 hours

Prerequisite: French 1002 or placement. FREN 2001, 2002 are not sequential. Along with FREN 2002, this course offers a review and expansion of grammatical concepts and vocabulary studied in 1001 and 1002; increased skill development in listening, speaking, reading and writing; and the study of authentic texts. Grammar and readings appropriate to the concepts and structures studied in 2001. Language laboratory assignments. Class conducted in French. Not open to native speakers.

FREN 2002 Intermediate French II 3 hours

Prerequisite: French 1002 or placement. FREN 2001, 2002 are not sequential. Continued skill development in listening, speaking, reading, and writing through the study of cultural and literary texts, with focus on reinforcement and acquisition of grammatical structures through active language use. Grammar and readings appropriate to the concepts and structures studied in 2002. Class conducted in French. Not open to native speakers.

FREN 3000 French Grammar and Composition 3 hours

Prerequisites: FREN 2001 and 2002 and departmental permission. A thorough review and expansion of the main grammatical concepts, roles, and applications studied in FREN 1001, 1002, 2001, 2002. A practical application of grammar study through translations (English to French), formal and informal writing, listening, and refinement of self-editing skills. Offered as an on-line course.

FREN 3110 French Culture and Civilization I 3 hours

Prerequisite: French 2002 or permission of instructor. A survey of the historical, sociological, philosophical, literary and artistic developments of France up to modern times. Conducted in French. A distance-learning course.

FREN 3120 French Culture and Civilization II 3 hours

Prerequisite: French 2002 or permission of instructor. A survey of the historical, sociological, philosophical, literary and artistic developments of modern-day

France and the Francophone world. Conducted in French. A distance-learning course.

FREN 3200 The Francophone World 3 hours

Prerequisite: FREN 2001 or 2002. A study of the French speaking areas of the world including Asia, Canada, the Caribbean, North and West Africa, and the Pacific Islands, with emphasis on the interplay between indigenous culture and French culture as examined through historical, literary, and artistic expression. Class conducted in French.

FREN 3450 Advanced Conversation I (O) 3 hours

Prerequisite: 2001 or 2002. Guided informal discussions on assigned topics. Organized around the hierarchy of communicative linguistic functions, the course is designed to increase fluency, improve pronunciation, expand vocabulary and teach idiomatic expressions. Assignments include compositions, dictation, transcription, recitation, and oral presentations. Class conducted in French.

FREN 3500 French Phonetics 3 hours

Prerequisite: FREN 2001 or 2002. An intensive study of pronunciation building fluent expression through corrective phonetics and requiring the use of the International Phonetic Alphabet and phonetic transcriptions. Class conducted in French.

FREN 4110 Advanced Grammar & Composition 3 hours

Prerequisite: French 2002 or permission of instructor. An advanced study of grammar, syntax, and vocabulary with refinement of writing skills through composition. Conducted in French. A distance-learning course.

FREN 4160 Survey of Medieval and Sixteenth-Century French Literature (W) 3 hours

Prerequisites: FREN 2001 and 2002, or departmental permission; FREN 3110 recommended. A study of the primary authors and literary movements from the Middle Ages through the Renaissance. Examines the origins of French literature, its development through the Middle Ages, and the influences of Humanism, the Catholic Church, scientific progress, and the discovery of the New World. Class conducted in French.

FREN 4170 Survey of Seventeenth-Century French Literature (W) 3 hours

Prerequisites: French 2001 and 2002, or departmental permission; French 3110 recommended. Study of the major literary movements of seventeenth-century France with emphasis on the Baroque and Classicism, as well as Louis XIV's politics on literature, art, and architecture. Class conducted in French.

FREN 4180 Survey of Eighteenth-Century French Literature (W) 3 hours

Prerequisites: FREN 2001 and 2002, or departmental permission; FREN 3110 recommended. Study of the major writers and literary movements of the Enlight-

enment, with special emphasis on the Philosophes. Explores the progression from the Rationalisme Philosophique to the Sensibilité Pré-romantique. Illustrates the liberal and militant ideas which led to the social upheaval and unrest which culminated in the French Revolution. Class conducted in French.

FREN 4190 Survey of Nineteenth-Century French

Literature (W)

3 hours

Prerequisites: FREN 2001 and 2002, or departmental permission; FREN 3110 recommended. Study of the major literary and artistic movements of the nineteenth century from Romanticism to Symbolism and Naturalism, with emphasis on the interplay of literature and social, economic, and political currents. Class conducted in French.

FREN 4200 Survey of Modern French Literature (W)

3 hours

Prerequisites: FREN 2001 and 2002, or departmental permission; FREN 3110 and 3120 recommended. Study of the principal authors, genres and literary schools of the modern period. Examines the changing role of the intellectual in a turbulent new world and the impact of the two world wars upon the Self. Class conducted in French.

FREN 4210 Business French

3 hours

Prerequisite: French 2002 or permission of instructor. An introduction to the economic and business practices of contemporary France and the Francophone world. Conducted in French. A distance-learning course.

FREN 4450 Advanced Conversation II (O)

3 hours

Prerequisites: FREN 2001 and 2002, or departmental permission. Practice in conversational French based on discussions of texts and audio-visual media. Emphasis on continued vocabulary building, increased fluency, and improved ability to state and defend an opinion, resolve problems, and discuss abstract topics. Class conducted in French.

FREN 4890 Special Topics

1, 2, or 3 hours

Prerequisite: FREN 2001 or 2002 and permission of department; FREN 3110 or 3120 recommended. Study of an area of language, literature, or culture not fully covered in other regular courses. Topics vary and are announced in advance. May be repeated for 1, 2, or 3 credit hours for a maximum of six credits if topic is different. Class conducted in French.

STUDY ABROAD COURSES IN FRENCH

FREN 1920 Elementary French Conversation

3 hours

A practical course which focuses on vocabulary and structure with the aim of enabling the student to comprehend and speak on a limited basis in everyday situations. Offered as Study Abroad credit only.

- FREN 1930 Elementary French Language** 3 hours
A review of vocabulary, grammar and structure including practical work in a laboratory and/or homestay setting. Offered as Study Abroad credit only.
- FREN 1940 Elementary French Phonetics** 3 hours
An introduction to the vocal rhythms and phonetic patterns basic to French speech. Offered as Study Abroad credit only.
- FREN 2920 Intermediate I Quebec Civilization and Culture** 3 hours
An overview of the history of Quebec from 1535 to the present day. Taught at the lower intermediate level. Offered as Study Abroad credit only.
- FREN 2930 Intermediate I French Language** 3 hours
Building on the elementary foundation, a study of the structure and use of the French language for second-year students. Offered as Study Abroad credit only.
- FREN 2940 Intermediate I French Phonetics and Conversation** 3 hours
A practical course dealing with corrective phonetics and increasing the ability to converse in French using present, past and future time constructions. Offered as Study Abroad credit only.
- FREN 3920 Intermediate II Quebec Civilization and Culture** 3 hours
Further readings and work in Quebec's history and culture. Offered as Study Abroad credit only.
- FREN 3930 Intermediate II French Language** 3 hours
Continued study of French and syntax at the higher intermediate level. Offered as Study Abroad credit only.
- FREN 3940 Intermediate II French Phonetics and Conversation** 3 hours
A continuation of the intermediate phonetics course focusing on the ability to hypothesize and to deal with complicated situations in conversation while pronouncing correctly. Offered as Study Abroad credit only.
- FREN 3980 Intermediate Commercial French** 3 hours
An introduction to the terminology of technical and commercial documents in French business. Offered as Study Abroad credit only.
- FREN 4920 Advanced Quebec Civilization and Culture** 3 hours
An advanced study of the history and civilization of Quebec with a special in-depth study focusing on a particular aspect of Quebec culture. Offered as Study Abroad credit only.
- FREN 4930 Advanced French Language** 3 hours
A study of the French language at the highest undergraduate level with a concentration on the most difficult and involved constructions. Requires translation of difficult passages into French. Offered as Study Abroad credit only.

FREN 4940 Advanced French Phonetics and Conversation 3 hours
Problems in French phonetics at the upper level. Conversational situations designed to enable the students to argue and defend their position in a foreign language. Offered as Study Abroad credit only.

FREN 4950, 4960, 4970 Study Abroad 1-6 hours
The study of the French language and Francophone cultures in a native environment. Designed especially for students in a Study Abroad Program of the University System of Georgia.

FREN 4980 Advanced Commercial French 3 hours
Usage of terminology already acquired in simulated practical business situations. Offered as Studies Abroad credit only.

FREN 4990 Advanced Francophone Literature 3 hours
Studies of various genre and authors in Quebec literature. Topics may vary from year to year. Offered as Study Abroad course only.
Graduate credit is also possible. See Graduate catalog.

COURSES IN GEOGRAPHY

GEOG 1101 Introduction to Human Geography 3 hours
A study of fundamental concepts in human geography, including spatial interaction, population dynamics, human-environment interaction, culture, interpreting landscapes, economic development, and political geography. The course also addresses locations and attributes of elements of our world, and introduces certain computer-assisted data manipulation skills. This course may be used to fulfill the elective requirements of Core Area E.

GEOG 1111K Introduction to Physical Geography 4 hours
A study of the natural systems that shape our physical environment and the resultant spatial patterns discernable on Earth's surface. The course explores atmospheric processes, and the distribution of soils and life forms, land-forming and modification processes, and the distribution and characteristics of certain recognized landform types. The laboratory includes practical experience in making observations, performing measurements and calculations, interpreting physical phenomena, drawing conclusions, and reporting the results of these activities all related to the natural systems that shape our physical environment and the resultant spatial patterns discernable on Earth's surface. This course may be used to fulfill part of the non-science-major requirement in Core Area D.

GEOG 3563 Introduction to Remote Sensing 3 hours
Prerequisite: GEOG 1101 or GEOG 1111 or permission of the instructor. An introduction to the principles, equipment, technique, and applications of remote sensing, including film and aerial photography, satellite imagery, and radar. Course emphasis will be adjusted to students' interests but will include applications in image interpretation, land use/land cover classification, and photogrammetry.

GEOG 4370 Introduction to Geographic Information Systems 3 hours

Prerequisites: GEOG 1101 or GEOG 1111; or permission of the instructor. Students should not attempt this course unless they are familiar with spreadsheets. This course explores the basic concepts of spatially referenced data and how these data are requested in, manipulated by, and presented with geographic information systems (GIS). Topics include the nature and accuracy of spatially referenced data, map projections, coordinate systems, map reference systems, raster/vector data representation, as well as methods of data capture, storage, retrieval, visualization, modeling, and output using one or more PC-based GIS software packages.

GEOG 4910 Introduction to Research Methods 1 hour

Prerequisite: permission of the instructor. This course will comprise directed independent study by advanced students of a geographic topic not available in regular courses. Topics will be selected on the basis of shared student - faculty interests and the availability of the instructor to direct the study. May be taken 4 times for a total of 4 credits.

GEOG 4920 Introduction to Research Methods 2 hours

May be taken 3 times for a total of 6 credits.

GEOG 4930 Introduction to Research Methods 3 hours

May be taken 2 times for a total of 6 credits.

COURSES IN GEOLOGY

GEOL 1644K Introduction to Geology 4 hours

An introduction to the physical, chemical, and environmental processes that shape the earth. Topics include internal heat driven processes, such as rock and mineral formation, tectonism, and volcanism, external heat driven processes, such as mass wasting, weathering, and glacial/alluvial dynamics. The laboratory contains a significant field-trip component highlighting the geology of the northern Georgia region.

COURSES IN GERONTOLOGY

The Gerontology Certificate Program at North Georgia College & State University is designed to enable students at the undergraduate and graduate level, non-degree students, and residents of the community to obtain a certificate in 2-3 semesters of course work. Students will complete a total of fifteen (15) semester hours of graduate level, or upper level undergraduate, courses to meet the requirements of the certificate program. Twelve (12) of the hours must arise from the four certificate courses. These four courses are the: Survey of Aging, Biology of Aging,

Sociology of Aging, Psychology of Aging. Any of these courses may be used to satisfy the elective requirement in the BSN program.

Additionally, students must select either a supervised practicum (GERO 3581) or participate in a Research Experience (GERO 3681) with a faculty member working in any area of Gerontology. Both the practicum and research experience must be approved by a faculty member in the Gerontology program.

GERO 3081 Survey of Aging 3 hours

The Seminar in Aging is designed as the first in a series of four gerontology courses online. This course is appropriate for both graduate students and upper-level undergraduate students. Its primary purpose is to provide an introduction and overview of the biology, psychology, and sociology of aging. In addition, contemporary topics related to older individuals and aging are introduced. Participation by students and faculty will highlight the complexities of the aging process from diverse perspectives. Students are introduced to the field of gerontology.

GERO 3381 Biology of Aging 3 hours

The Human Physical Aging and Biology of Aging course is designed as one of a series of four (4) gerontology courses taught online. This course is appropriate for both graduate students and upper-level undergraduate students in health related fields and those interested in the physiological changes that occur with aging. Its primary purpose is to provide the basics of the biology of aging with a system-by-system description of aging phenomena in the body. Participation by students and discussion among collaborating faculty will highlight the complexities of the aging process from diverse perspectives.

GERO 3481 Sociology of Aging 3 hours

The Sociology of Aging is a distance learning course taught online. The course is designed for upper-level graduate and undergraduate students. Its central focus will be the examination of age as a social construct and aging as a social process. We will explore the effects of societal norms and social institutions on the aging experiences of individuals as well as the effects of qualities of generations and the age structure of a population on a society and its institutions. Students will become familiar with major sociological theories of aging. We will study the demographics of age by looking at the changing age structure of the United States and reviewing social indicators to document the composition and comparative status of the current older population. We will discuss issues of age-related inequality and its confluence with social class, race, and gender inequalities. We will investigate major contemporary issues in aging, using research literature to not only inform, but to enable us to analyze these issues and possible public policy responses to them.

GERO 3181 Psychology of Aging 3 hours

Psychology of Aging is a distance learning course taught online. This course is designed as part of a distance learning curriculum, and its purpose is to provide an introduction and overview of research findings in the psychology of aging. At NGCSU this is an introductory level graduate course and an upper-level undergraduate course. Lectures are designed to provide a general overview of

the domain of psychology and aging with an emphasis on critical evaluation of research. Accordingly, we will examine aging research and practice to obtain a general picture of the far-ranging contributions of both academic and applied psychology to later life and show how psychological research translates into practice. We will study academic research and look at some illustrations of clinical applications of research findings in order to demonstrate how the abstract content of the psychology of aging can come alive in a concrete way. Central goals of the course are to learn about procedures, biases, and limitations of major studies, evaluate the accuracy of theories, and explore actual research evidence supporting those theories. Through this snapshot of what we know, students should gain the tools and critical framework to question and evaluate future theory, research, and practice in the psychology of aging. We will focus on abstract theoretical questions and study topics with immediate, pressing applications to daily life. Among the topics that will be considered are the challenges of disability and health care, family relationships, personality consistency (or change), the ways people cope with stress, the course of retirement and widowhood, marital happiness, how families cope with caregiving, and the trajectory of Alzheimer's disease.

Three (3) additional hours must be fulfilled to meet a research/practicum experience requirement. These hours may involve a service learning practicum which is relevant to the study of gerontology and which is also community-based. As an alternative, a student may present a thesis which fulfills his/her degree program requirements AND which is relevant to the study of the older population, or may complete a research project relevant to the study of gerontology.

GERO 3581 Practicum Experience

3 hours

Prerequisite: Completion of GERO 3081, 3381, 3481, 3181 and approval by gerontology faculty member.

Students whose discipline has a practitioner's emphasis may complete an approved practicum in a community-based gerontological setting for three (3) semester hours. The practicum must be approved by the Gerontology faculty advisor. The student should outline the proposed practicum experience in a letter to the Gerontology faculty advisor.

Example of practicum experience: Service learning with the elderly. This course is a supervised field experience designed to assist in reinforcing knowledge, theories, and principles gained through courses related to Gerontology.

GERO 3681 Research Experience

3 hours

Prerequisite: Completion of GERO 3081, 3381, 3481, 3181 and approval by faculty gerontology faculty member.

Students whose discipline is focused on research may submit a thesis which they have completed to fulfill Master's requirements within their academic department, or they may complete an individual research project for fewer than three (3) semester hours. The thesis or project must focus on some aspect of aging, and the project must be approved by the Gerontology faculty advisor prior to the development of the project in order to qualify for the certificate. The student should outline the proposed project in a letter to the Gerontology faculty advisor.

As stated above, students should describe the proposed research project or practicum in a letter to the Gerontology faculty advisor or complete the form developed for this purpose. The student will receive written response from the Gerontology faculty advisor regarding the suitability of the proposed plan for the Gerontology Certificate. In addition, the student and his or her advisor must submit written documentation to the Gerontology faculty advisor that the project has been approved through the student's specialty department if the course is being taken in lieu of a requirement in that program of study, and also when that project has been completed as proposed. As stated previously, theses and disciplinary practicum completed in departments may fulfill these requirements as long as it is determined that the subject matter is suitable for the certificate before the project begins. When the academic credit for the thesis or practicum is awarded by any academic unit other than the Gerontology Program, the responsibility for evaluating the quality of the work resides solely in the department.

COURSES IN GENDER STUDIES

GNST 2140: This course provides a study of the concept of womanhood as it is revealed in feminist literature. In exploring this concept, the class will examine the concept of manhood as a factor both influencing and influenced by notions of womanhood. Through analysis of the assigned texts, the class will examine gender and its relationship to economics, religion, politics, art, culture, and other areas.

GNST 4100: As a capstone to the minor, students will complete Gender Studies 4100, a course in which the minor coursework is synthesized. This course will be designed by the student and his/her advising professor and must meet the following criteria.

COURSES IN GERMAN

GRMN 1001 Beginning German 3 hours
Prerequisite: none. An introduction to Germanic culture and to the fundamentals of hearing, speaking, reading and writing of German. Designed for those who have never studied German before or who need a review. Active classroom use of the language. Language and computer laboratory assignments. Not open to native speakers. GRMN 1002 or higher strongly recommended for highly proficient speakers of German.

GRMN 1002 Elementary German 3 hours
Prerequisite: German 1001, two years of high school language, or placement. A continuation of German 1001 introducing new vocabulary and basic structures through contextualized, active language use. Further study of Germanic culture at the elementary level. Language and computer laboratory assignments. Not open to native speakers.

- GRMN 2001 Intermediate German I** 3 hours
Prerequisite: German 1002 or placement. Continued skill development in listening, speaking, reading, and writing through situational use of the language with focus on reinforcement of grammatical structures and active use of new vocabulary. Includes continued study of Germanic culture through culturally based content. Language laboratory assignments. Class conducted in German. Not open to native speakers.
- GRMN 2002 Intermediate German II** 3 hours
Prerequisite: German 1002 or placement. Continued skill development in listening, speaking, reading, and writing through situational use of the language with focus on reinforcement and acquisition of grammatical structures and active use of new vocabulary. Further study of Germanic culture at the intermediate level. Language and computer laboratory assignments. Class conducted in German. Not open to native speakers.
- GRMN 3010 Survey of German Literature and Culture I** 3 hours
Prerequisite: German 2001 or 2002, or departmental permission. An introduction to German civilization through the 18th century. Provides an overview of the chief social, literary, and artistic trends and of the most important figures and events of the period. Class conducted in German.
- GRMN 3020 Survey of German Literature and Culture II** 3 hours
Prerequisite: German 2001 or 2002, or departmental permission. An introduction to German civilization in the 19th and 20th centuries. Provides an overview of the chief social, literary and artistic trends, and of the most important figures and events of the period. Class conducted in German.
- GRMN 3150 Advanced Conversation And Composition** 3 hours
Prerequisite: German 2001 or 2002, or departmental permission. Guided informal discussions in German on assigned topics. Intended to increase fluency, improve pronunciation, expand vocabulary, and master idiomatic expressions. Assignments include compositions, dictation, and oral presentations. Class conducted in German.
- GRMN 3160 Business German** 3 hours
Prerequisite: GRMN 2001 or GRMN 2002, or departmental permission. Introduction to the German business world, with analysis of its various political and commercial institutions as well as the socio-economic aspects of contemporary Germany. Emphasis on social, economic, and business practices in fields ranging from commerce to advertising to banking. This course is designed to familiarize students with German business practices, vocabulary, and correspondence. Class conducted in German.
- GRMN 4950, 4960, 4970 Study Abroad** 1 to 6 hours each
The study of the German language and culture in a native environment. Designed especially for students in one of the Study Abroad Program of the University System of Georgia.

GRMN 4990 Special Topics 3 hours
Prerequisite: GRMN 2001 or 2002, or departmental permission; GRMN 3010 or 3020 recommended. Study of an area of language, literature or culture not fully covered in other regular courses. Topics vary and are announced in advance. May be repeated for credit if topic is different. Class conducted in German.

COURSES IN HISTORY

HIST 1111 World Civilization I 3 hours
Surveys World History from beginning to early modern times.

HIST 1112 World Civilization II 3 hours
Surveys World History from early modern times to the present.

HIST 1112H Honors, World Civilization II 3 hours
Honors section. Surveys World History from early modern times to the present.

HIST 2000 Historiography (W) 3 hours
Introduction to methods of historical scholarship and how they have evolved from ancient times to today.

HIST 2111 U.S. History I 3 hours
Surveys U.S. history from colonial times to the post-Civil War period.

HIST 2111H Honors, U.S. History I 3 hours
Honors section. Surveys U.S. history from colonial times to the post-Civil War period.

HIST 2112 U.S. History II 3 hours
Surveys U.S. history from the post-Civil War period to the present.

HIST 2112H Honors, U.S. History II 3 hours
Honors section. Surveys U.S. history from the post-Civil War period to the present.

HIST 2200 History of European History (W) 3 hours
This course surveys European History from ancient to modern times.

HIST 2300 Latin American History 3 hours
This course surveys Latin American history from per-Columbian period to the present.

HIST 2370 Introduction to Western Philosophy (W) (O) 3 hours
Surveys some of the major philosophers, themes, and intellectual currents in Western philosophical thought from Socrates to Sartre.

- HIST 2410 Religion and Thought in the Islamic World** 3 hours
This course surveys the intellectual history and religious history of the Islamic world from the rise of Islam to the modern period.
- HIST 2600 History of Central Eurasia** 3 hours
This course surveys the history of Central Eurasia from ancient to modern times with emphasis on cultural and religious interactions along the Silk Road.
- HIST 2724 Religion in U. S. History** 3 hours
This course will examine the role religion has played in American History.
- HIST 2860 Introduction to World Religions (W)** 3 hours
Examines historical development of the major religions of the world and their contributions to world civilization.
- HIST 3150 Social & Cultural History of the U.S. to 1860 (W)** 3 hours
Analyzes social currents, institutions, and minorities in Colonial and Ante-Bellum America. [U.S.]
- HIST 3151 Social & Cultural History of the U.S., 1860 to Present (W)** 3 hours
Analyzes social currents in 19th and 20th century America. [U.S.]
- HIST 3152 Social Movements in Modern America (W)** 3 hours
Studies main social movements which have shaped 20th century America. [U.S.]
- HIST 3155 U.S. Women's History (W)** 3 hours
Focuses on how women shaped the political, economic, social, and cultural history of the nation. [U.S.]
- HIST 3160 War and Society in America (W)** 3 hours
Studies the impact of war on social, economic, political, and culture life in the U.S. [U.S.]
- HIST 3170 Appalachian Studies (W)** 3 hours
Studies the Appalachian region and its culture. [U.S.]
- HIST 3180 The Civil War and Reconstruction (W)** 3 hours
This course covers the tensions that led to the war, the war itself, and the effects of the war during the Reconstruction era with emphasis on the cultural, military, and political issues of the period. [U.S.]
- HIST 3185 Georgia History (W)** 3 hours
This course examines the history of the state from European contact to the present. The course compares Georgia to the rest of the country to examine its uniqueness and its similarities. The Maymester course includes site visits. [U.S.]

HIST 3220 Renaissance and Reformation (W) 3 hours
Prerequisite: HIST 1112. Europe from 1350 to 1648, with emphasis on the political, economic, social, and intellectual background of the Italian and Northern Renaissance, and the multi-faceted aspects of the Reformation and the subsequent wars. [EUROPEAN]

HIST 3230 Nineteenth Century Europe (W) 3 hours
Prerequisite: History 1112. Surveys the major political, social, and intellectual developments, emphasizing nationalism, socialism, and liberalism between 1815 and 1914. MQS approved. [EUROPEAN]

HIST 3235 Twentieth Century Europe (W) 3 hours
Prerequisite: History 1112. Studies Europe from the onset of the World War I through the end of the 20th Century. [EUROPEAN]

HIST 3250 Modern Britain (W) 3 hours
Prerequisite: HIST 1112. Studies Great Britain from 1832 to the present focusing on the monarchy, the Empire period through decolonization, and the sociocultural issues of the period. [EUROPEAN]

HIST 3260 Modern Germany (W) (O) 3 hours
This course surveys Germany from 1871 to the present, focusing on the creation of the modern state and tracing political, cultural, social, and economic development to the present. (EUROPEAN)

HIST 3280 History of Western Warfare (W) 3 hours
Surveys Western warfare from the beginning to the present, emphasizing the modern period as well as the relationship between wars and societies. [U.S. OR EUROPEAN]

HIST 3300 Latin American History (W) 3 hours
Prerequisite: HIST 1112. This course examines selected topics in Latin American history. This course may be taken more than once for credit with the approval of the Department Head. (LATIN AMERICA)

HIST 3320 Regional Studies in Latin America 3 hours
This course examines selected regions in Latin America, including Mexico, Central America, the Caribbean, and South America. (LATIN AMERICA)

HIST 3330 Indigenous Peoples of Latin America (W) (O) 3 hours
This course examines the history of Latin America's indigenous peoples from the three great pre-Columbian empires of Latin America (Aztec, Maya, Inca) through the present. (LATIN AMERICA)

HIST 3400 History of the Middle East (W) 3 hours
This course focuses on the history of the Middle East from the decline of the Ottoman empire to the present. [ASIAN, WORLD]

- HIST 3420 The Middle East in the Middle Ages (W) (O)** 3 hours
This course traces history of the Middle East from the rise of Islam to the Ottoman Empire. (ASIAN, WORLD)
- HIST 3450 The Crusades (W) (O)** 3 hours
This course will examine the Crusades from their origin to the end of Latin Kingdoms in the Middle East. (ASIAN, EUROPEAN, WORLD)
- HIST 3510 History of Modern Southeast Asia (W)** 3 hours
Surveys Southeast Asian history, emphasizing the emergence of the region as a factor in modern world history. [ASIAN]
- HIST 3600 History of Asian Civilization (W)** 3 hours
Surveys East, Southeastern, and Northeastern Asian history, emphasizing the role of China and Japan in world affairs. [ASIAN]
- HIST 3630 History of Modern China (W)** 3 hours
Prerequisite: History 1112. Surveys political, cultural, and social developments in China from the Qing Dynasty to the present. [ASIAN]
- HIST 3640 History of Modern Japan (W)** 3 hours
Prerequisite: History 1112. Surveys political, economic, and cultural developments in Japan from the Tokugawa Shogunate through the present. [ASIAN]
- HIST 3650 The Mongol Conquests (W)** 3 hours
This course examines the Mongolian Empire and the impact the Mongols had on Eurasia. [ASIAN]
- HIST 4000 Studies in Historiography (W) (O)** 3 hours
A capstone seminar course that examines historical methodology. [ASIAN, AFRICAN, EUROPEAN, LATIN, U.S., WORLD]
- HIST 4100 Studies in U.S. History (W) (O)** 3 hours
A capstone seminar course that examines special topics in U.S. history. [U.S.]
Note: This course may be taken more than once for credit with approval of Department Head.
- HIST 4110 History of Colonial America** 3 hours
This course is an in-depth study of Colonial America, particularly North America, from pre-Columbian times up to the revolutionary era. The course will explore themes such as migration, technological innovation, and diffusion of cultures.
- HIST 4120 History of Early National U.S.** 3 hours
This course is an in-depth study of United States history from the end of the American Revolution to the era of Andrew Jackson. Emphasis is placed on relations with Native peoples in the eastern US, American participation in international conflicts, and the expansion of democracy, early industrialization, and efforts at domestic reform.

HIST 4155 Oral History (W) (O) 3 hours
This course will train students in the art of collecting and transcribing oral history. (U.S.)

HIST 4160 Studies in Military History (W) (O) 3 hours
A capstone seminar course that examines the connection between the military and society. [EUROPEAN OR U.S.]

HIST 4161 Studies in American Revolution (W) (O) 3 hours
A capstone seminar course that examines the origins, unfolding, and ramifications of the American Revolution from local, regional, and international perspectives. [U.S.]

HIST 4170 Studies in Regional and Local History (W) (O) 3 hours
A capstone seminar course that examines selected topics in local history with an emphasis on Northeast Georgia. [U.S.]

HIST 4190 Studies in U.S. Diplomatic History (W) (O) 3 hours
A capstone seminar course that examines selected episodes in American diplomacy from the Revolution to the present. [U.S.]

HIST 4200 Studies in World History (W) (O) 3 hours
A capstone seminar course that examines selected topics in World Civilization. [ASIAN, AFRICAN, EUROPEAN, LATIN, U.S., WORLD]
Note: This course may be taken more than once for credit with approval of Department Head.

HIST 4232 Studies in World War I (W) (O) 3 hours
A capstone seminar course that examines selected episodes and topics of World War I. MQS Approved. [U.S. OR EUROPEAN]

HIST 4300 Studies in European History (W) (O) 3 hours
A capstone seminar course that examines selected topics in European history. [EUROPEAN] Note: This course may be taken more than once for credit with approval of Department Head.

HIST 4310 Gender and Sexuality of Latin America (W) (O) 3 hours
This course examines change in gender/sexuality over time and how these norms shape Latin American history. (LATIN AMERICA)

HIST 4810 Studies in 19th and 20th Century World (W) (O) 3 hours
A capstone seminar course that examines selected episodes and developments in 19th and 20th century world history. [WORLD]

HIST 4820 History of Indigenous People (W) (O) 3 hours
This course examines the role that indigenous peoples worldwide have played in shaping history and in shaping today's world. (WORLD)

- HIST 4850 Studies in Modern World Revolutions (W) (O)** 3 hours
A capstone seminar course that examines selected topics in modern world revolutions. MQS approved. [U.S. OR WORLD]
- HIST 4860 Studies in World War II (W) (O)** 3 hours
A capstone seminar course that investigates selected episodes and topics of World War II. MQS approved. [EUROPEAN OR U.S.]
- HIST 4875 Studies in Encounters in World History (W) (O)** 3 hours
A capstone seminar course that explores the nature and impact of encounters, invasions, and cultural exchanges in world history. [WORLD]
- HIST 4880 Studies in Comparative Empires (W) (O)** 3 hours
A capstone seminar course that examines imperial expansion in world history as well as the theories and methods of occupation and governance. [WORLD] This course can be repeated up to 3 times.
- HIST 4900 Internship in History I** 3 hours
Prerequisite: Permission of professor.
- HIST 4901 Internship in History II** 6 hours
Prerequisite: Permission of professor.
- HIST 4902 Internship in History III** 9 hours
Prerequisite: Permission of professor.

COURSES IN INTERNATIONAL STUDIES

- INTL 1001 International Studies I** (1-9 credit hours)
Prerequisite: None. This course is taken by students choosing to study abroad. The course will introduce students to cultures and experiences not available on the NGCSU campus.
- INTL 2001 International Studies II** (1-9 credit hours)
Prerequisite: None. This course can be taken in conjunction with INTL 1001. This course also utilizes international experiences to further students' cultural understanding of the world around them.
- INTL 3001 International Studies III** (1-9 credit hours)
Prerequisite: None. This course is for more advanced students in International Studies. This course will focus on an in-depth study abroad experience. Students will examine how culture relates to their particular field of study.

INTL 4001 International Studies IV

1-9 credit hours)

Prerequisite: None. This course is for a student who is participating in study abroad opportunities at the junior or senior level. This course will focus on an in-depth study abroad experience. Students will be involved in cross cultural comparison and are expected to relate their experiences to their chosen field of study.

**INTEGRATED SCIENCE COURSES
IN TEACHER EDUCATION****ISCI 2001 – Earth & Life Science**

3 hours

This is a content-specific course for pre-service teachers (grades K-5). The scientific content to be covered will encompass the concepts required for successful delivery and assessment of the Georgia Performance Standards for grades K-5. Specifically, this content will be centered around the following topics: Habits of Mind, The Nature of Science, Reading in Science, Astronomy, Geology, Ecosystems and Energy (Biological Applications), Interdependence of Life, Evolution, Biodiversity, Classification, Cells and Cell Systems, and Heredity.

ISCI 2002 – Physical Science

3 hours

This is a content-specific course for pre-service teachers (grades K-5). The scientific content to be covered will encompass the concepts required for successful delivery and assessment of the Georgia Performance Standards for grades K-5. Specifically, this content will be centered around the following topics: Habits of Mind, Nature of Science, The Reading Standard, Matter – Composition and Properties, Changes in Matter, Conservation of Matter, Sources of Energy, Types and Utilization of Energy, Changes in Energy / Conservation of Energy, Forces of Motion/Kinematics, Gravity, Waves and Wave Properties, Electricity, Magnetism, and Gravitational Fields.

COURSES IN JOURNALISM**JOUR 1000 Newspaper Practicum**

1, 2, or 3 hours

An introduction to the various forms of print journalism combined with practical experience in publication of the college newspaper.

JOUR 1010 Writing for the Media I

3 hours

An introduction to news reporting and writing for print and broadcast, as well as to public relations news release writing. It trains students in the fundamentals of such writing and provides opportunities to practice these skills.

JOUR 2000 Newspaper Practicum

1, 2, or 3 hours

Prerequisite: JOUR 1000. An introduction to the various forms of print journalism combined with practical experience in publication of the college newspaper, The Voice.

JOUR 3000 Newspaper Practicum 1, 2, or 3 hours
Prerequisite: JOUR 2000. An introduction to the various forms of print journalism combined with practical experience in publication of the college newspaper,

JOUR 3010 Writing for the Media II (W) 3 hours
Prerequisite: JOUR 1010. A course that builds on the work begun in JOUR 1010 and includes advanced writing of news, features, and in-depth reports for print, broadcast, and public relations.

JOUR 3100 Editing and Layout (W) 3 hours
Prerequisite: JOUR 1010. A course that involves learning the basic principles of general editing, copy editing, layout, and production of print publications. It also involves a significant amount of hands-on practice of these skills, as well as instruction in the use of computerized page layout software.

JOUR 3700 Public Relations Principles and Cases (W) 3 hours
Prerequisite: JOUR 1010. A course on the basic principles and theories of modern public relations practice, as well as the basic skills needed for such practice. It also includes a study of actual public relations cases.

JOUR 4000 Seminar on Significant Issues in Mass Communication (W) 3 hours
Prerequisite: JOUR 1010 and at least one other course from the professional writing minor. A course that addresses a selected topic (or topics) related to a significant issue in mass communication. Such issues might include diversity and the media, women in communications, or the influence of new technology on mass communication and professional writing. In order to have a basis for this study, the course also includes an exploration of mass communication research methods and theories.

JOUR 4850 Contemporary Media: Internship and Analysis (W) 3 hours
Prerequisite: JOUR 1010. A course that combines practical experience in a media internship with reading and analysis of specified issues in mass media.

COURSES IN KOREAN

KREN 1002 Elementary Korean 3 hours
The prerequisite is Korean 1001, placement, or permission from the Program Coordinator. This is an introductory course for students with previous knowledge of the Korean Language. This is also for beginners to acquire basic fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of basic skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio files prior to meeting in groups with an assigned native-speaking tutor for intensive throughout the semester. Class time is dedicated primarily to

interactive exercises. Language skills will also be developed through language laboratory assignments. Secondary emphasis is placed on providing information that will enhance the students' knowledge of the Korean culture.

COURSES IN LANGUAGE ARTS

Admission to teacher education is required for enrollment in all of the following courses:

LART 3005 Teaching of Reading 3 hours
An intensive study of reading skills in the areas of readiness, vocabulary development, phonics, word recognition, and comprehension. Students will become familiar with research-based practices in methods and curriculum, as well as strategies for organizing classrooms to support literacy development in diverse school populations.

LART 3006 Teaching Reading in the Content Areas (P-5) 3 hours
Study of objectives and methods for teaching comprehension, vocabulary, study skills and critical reading in the content areas. Attention is focused on refinement of teaching strategies to improve content area instruction and to create appreciation of and interest in reading in the elementary grades.

LART 3007 Diagnosis and Remediation of Reading Disabilities 3 hours
This course is designed to provide future teachers working with diverse and at-risk school populations with research-based prevention and intervention strategies. Informal reading assessment, remedial strategies for individuals, small and large groups, characteristics and needs of special populations, and research-based preventative practices are addressed.

**LART 3040 Teaching Reading and Writing in the Middle /
Secondary Schools** 3 hours
This course provides students with the theory behind methods and materials for teaching reading and writing in the content areas. Strategies and activities that enable the classroom teacher to develop instruction that integrates reading and writing into content knowledge will be stressed.

LART 3090 Language Arts and Children's Literature 3 hours
This course is designed to address the evaluation and study of books for children and the integration of conventional and creative forms of written expression into elementary school curriculum. This course will focus on the utilization of children's literature and writing to support academic, social, emotional, and cultural awareness and development.

LART 3106 Teaching Reading in the Content Areas (6-12) 3 hours
Study of objectives and methods for teaching comprehension, vocabulary, study skills, and critical reading in the content areas in grades 6-12. Attention is focused

on refinement of teaching strategies to improve content area instruction and to create appreciation of and interest in reading. Offered spring only.

LART 3190 PreAdolescent Literature 3 hours

This course examines various types of literature written specifically for the middle school child or young adolescent. Discussed in the course are the characteristics of pre-adolescent literature in general, characteristics of various genres, evaluative criteria for judging quality literature, and teaching methods and strategies appropriate for the pre-adolescent.

COURSES IN LEADERSHIP

LEAD 4000 Advanced Studies in Leadership 3 hours

Prerequisite: Permission of the instructor. This course prepares students for their internship. Leadership students will study advanced leadership theory, ethics, values, power, culture and teambuilding. They will study working with groups, handling conflict, crisis, and general problem solving. The student will either construct a research paper or a syllabus with an accompanying plan of study for instructing.

LEAD 4490 Leadership Internship 3 hours

Prerequisite: Leadership 4000 and Permission of the instructor. This course involves completing a leadership oriented internship approved by the leadership advisor. The student may participate in the instruction of the PSYC 1001 Foundations of Leadership course assigned to them during prior training of LEAD 4000. Students will be present for the 2 day in class session and then maintain course contact online through WebCTVista and in the classroom for 50 minutes each week. Each advanced student leader will maintain contact with their assigned faculty to provide roll verification, midterm, and final grades.

COURSES IN MATHEMATICS EDUCATION

MAED 4101 Methods and Materials for Secondary Mathematics Teachers 3 hours

Corequisite: EDUC 4000. A study and practice of techniques involved in the effective guidance and instruction of mathematics students in grades 6-12.

MAED 4201 Mathematics Education Seminar 3 hours

Prerequisite or Corequisite: MAED 4101. This capstone course focuses on assisting pre-service secondary mathematics teachers to make insightful connections between advanced mathematics courses and the high school mathematics they will be teaching while contributing to the mathematical understanding and pedagogical skills of pre-service teachers.

COURSES IN MATHEMATICS

NOTE: The majority of non-Mathematics, non-Computer Science and non-science majors selecting an Area A mathematics course are best served by MATH 1101. Students who have a weak background in algebra are suggested to take MATH 1101 in Area A. Business Administration majors planning to eventually take MATH 2040, Brief Calculus, are recommended to take MATH 1111 in Area A.

MATH 1101 Introduction to Mathematical Models 3 hours
An introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results.

MATH 1111 College Algebra 3 hours
Topics include real and complex numbers, algebraic and absolute value, equations and inequalities, functions, graphs, polynomial and rational functions, and systems of equations, matrices and determinants.

MATH 1113 Precalculus 3 hours
An intensive course that focuses on applications of the functions, concepts, and methods necessary for success in calculus. Topics include exponential and logarithmic functions, trigonometric and inverse trigonometric functions, right triangle trigonometry, trigonometric identities and equations, oblique triangles, complex numbers, and parametric equations.

MATH 2008 Foundations of Numbers and Operations 3 hours
Prerequisite: Six hours of college level mathematics with a grade of "C" or above and admittance to the teacher education program. A student will not be allowed credit for MATH 2008 after completing MATH 3100 with a grade of "C" or above. This course will emphasize the understanding and use of the major concepts of number and operations. Topics include problem-solving strategies; inductive and deductive reasoning; numeration systems and place value; operations and algorithms; identity elements and inverse operations; rational and irrational numbers; integers and number theory; special sets of numbers; exponents and decimals; ratios, percents, and proportional reasoning.

MATH 2040 Brief Calculus 3 hours
Prerequisite: Grade of C or above in Math 1111. This course is intended for non-science majors, with particular emphasis on applications of calculus to business. It will develop familiarity with such concepts as limits, the derivative, the definite integral, the indefinite integral, and their applications.

- MATH 2400 Elementary Statistics** 3 hours
Prerequisite: Three hours of college mathematics with a grade of "C" or above.
A student will not be allowed credit for MATH 2400 after completing MATH 3350 with a grade of "C" or above. A noncalculus introduction to descriptive and inferential statistics. Topics include graphical and numerical methods of describing data, hypothesis testing, linear regression and correlation, the normal distribution, and estimation.
- MATH 2450 Calculus I** 4 hours
Prerequisite: Grade of C or above in MATH 1113
An introduction to differential calculus. Topics include limits, differentiation of algebraic and trigonometric functions, applications of derivatives, antidifferentiation, simple differential equations, the area under a curve, the fundamental theorem of calculus, and differentiation and integration of exponential and logarithmic functions.
- MATH 2460 Calculus II** 4 hours
Prerequisite: Grade of C or above in MATH 2450
A continuation of Calculus I. Topics include application of definite integrals, derivatives and integrals with inverse trigonometric functions, indeterminate forms and l'Hopital's rule, techniques of integration, polar coordinates, infinite sequences and series.
- MATH 2470 Calculus III** 4 hours
Prerequisite: Grade of C or above in MATH 2460
A continuation of Calculus II. Topics include functions of several variables; partial differentiation; multiple integrals; vector algebra, lines, planes, and curves in three dimensions; and vector calculus.
- MATH 2800 Introduction to Mathematical Proof** 3 hours
Prerequisite: Grade of C or above in MATH 2450
Topics include propositions and their truth values, tautologies, quantifiers, methods of proof, sets, relations, equivalence relations and partitions, functions, and mathematical induction.
- MATH 3000 Differential Equations** 3 hours
Prerequisite: Grade of C or above in MATH 2460
An introductory course in ordinary differential equations with emphasis upon linear differential equations of the first and second orders. Topics include solution of second order differential equations by the methods of undetermined coefficients, variation of parameters, and Laplace transforms.
- MATH 3010 Partial Differential Equations** 3 hours
Prerequisite: Grade of C or above in MATH 2470 and 3000.
Topics include power series method for solving ordinary differential equations, Fourier series and integrals, orthogonal functions and partial differential equations with boundary conditions.

MATH 3020 Nonlinear Dynamics and Chaos 3 hours

Prerequisite: Grade of C or above in MATH 2460

Topics include one-dimensional flows and bifurcation, phase portraits, linearization and classification of equilibrium points, limit cycles, chaos, one-dimensional maps, and fractals.

MATH 3110 Informal Geometry 3 hours

Credit not applicable toward a mathematics major or minor. Prerequisite: Grade of "C" or above in MATH 2008. This course is designed for K-8 pre-service teachers and focuses on topics such as plane figures, polygons and tessellations, space figures, symmetric figures, systems of measurement, area and perimeter, volume and surface area, and congruence and similarity mappings.

MATH 3116 Modeling in Algebra for Teachers 3 hours

Credit not applicable toward a mathematics major or minor. Prerequisite: Grade of "C" or above in MATH 2008. This course designed for K-8 pre-service teachers and focuses on variables, expressions, equations, inequalities, systems of equations, matrices, and linear, non-linear, and inverse functions. Emphasis is on problem solving, active learning, appropriate communication, substantive connections, technology utilization, and multiple representations of algebraic structures.

MATH 3120 Geometry 3 hours

Prerequisite: Grade of C or above in MATH 2800. A background in plane geometry is helpful. Topics include classifications of geometries (Euclidean, Non-Euclidean, and other) and geometry related concepts outside the perspective of other mathematics courses.

MATH 3140 Probability and Statistics for Teachers 3 hours

Credit not applicable toward a mathematics major or minor. Prerequisite: Grade of "C" or above in MATH 2008. This course is designed for K-8 pre-service teachers and focuses on making decisions and predictions in the context of solving real- world problems through the process of collecting, representing, processing, summarizing, analyzing, and transforming data.

MATH 3350 Probability and Statistics I 3 hours

Prerequisite: Grade of C or above in MATH 2450. An introductory calculus-based course in probability and statistics. Topics include descriptive statistics and linear regression, basic probability and probability distributions, point estimation, confidence intervals, and hypothesis testing.

MATH 3450 Probability and Statistics II 3 hours

Prerequisite: Grade of C or above in MATH 3350. A continuation of the study of probability and statistics, emphasizing the theory of statistical inference. Topics include two-sample estimation and tests of hypothesis, analysis of variance and randomized block designs, regression analysis, correlation, transformations and multiple regression, and quality control methods.

MATH 3500 Introduction to Discrete Mathematics 3 hours
Prerequisite: Grade of C or above in MATH 2450. An introductory course in discrete mathematics emphasizing the formulation and solution of problems which are discrete in nature. Topics include logic, sets, relations, combinatorial methods, recurrence relations, graphs and networks, directed graphs, and Boolean algebras.

MATH 3520 Graph Theory 3 hours
Prerequisite: Grade C or above in MATH 2460. An introductory course in Graph Theory. Topics include fundamental concepts and definitions, trees, distance, matchings, factors, connectivity, paths, and graph colorings. Applications of these topics will be investigated and will include the development of appropriate algorithms.

MATH 3540 Introduction to Cryptography 3 hours
Prerequisite: Grade of C or above in MATH 2460. An introduction to the mathematics of cryptology and cryptanalysis. Topics include difficulty of an algorithm in terms of polynomial time; number theory topics of divisibility, greatest common divisor, the Euclidean Algorithm, prime numbers, congruence, Fermat's little theorem, factoring, and discrete logarithms; encryption schemes and the associated matrices or linear maps; perfect security; the DES algorithm; public-key encryption; and digital signatures. The ability to read a proof is expected.

MATH 3550 Numerical Analysis 3 hours
Prerequisite: Grade of C or above in MATH 2460. A course in numerical solutions to problems in mathematics: roots of non-linear equations, zeros of polynomials, interpolation, systems of linear algebraic equations, quadrature, ordinary differential equations with analysis of methods and errors, and programming of methods on a computer.

MATH 3570 Combinatorics 3 hours
Prerequisite: Grade of C or above in Math 2800.
An introductory course in combinatorics. Topics include fundamental counting methods, Pigeonhole Principle, binomial coefficients, inclusion-exclusion principle, Twelffold way, recurrence relations, generating functions. Advanced topics to be selected from Pólya theory, combinatorial design, permutation statistics, Ramsey theory.

MATH 3590 Game Theory 3 hours
Prerequisites: Grade of C or above in MATH 2040 or MATH 2450. Game theory models will be discussed from a humanities-based, decision-sciences perspective. Topics will include strategic, matrix and sequential games, optimization, Nash equilibria and strategies. Applications will include economic and strategic (military) models, the Prisoner's Dilemma, Cournot Duopoly, bargaining and auctions.

MATH 3600 Introduction to Abstract Algebra I (W) 3 hours
Prerequisite: Grade of C or above in MATH 2800. A formal introduction to the algebra of groups, rings, and fields.

MATH 3610 Introduction to Abstract Algebra II 3 hours
Prerequisite: Grade of C or above in MATH 3600. A continuation of MATH 3600. Topics include group theory, ring theory, field theory, Galois theory, and finite fields.

MATH 3650 Introduction to Linear Algebra 3 hours
Prerequisite: Grade of C or above in MATH 2460. An introduction to the basic concepts of linear algebra. Topics include finite-dimensional vector spaces, bases, linear transformations, and matrices.

MATH 4120 Elementary Differential Geometry 3 hours
Prerequisite: Grade of C or above in MATH 2470. Topics include curves, surfaces, coordinate charts, differentiable manifolds, the tangent plane, the first fundamental form, the Gauss map, the second fundamental form, curvature, geodesics, the Gauss-Bonnet theorem, and projections with applications to cartography.

MATH 4130 Introduction to Topology 3 hours
Prerequisites: Grade of C or above in MATH 2800 and MATH 2470. An introductory course in point set topology. Topics include topological spaces, bases, subspaces, closed sets and limit points, the product topology, connected spaces, compact spaces, countability axioms, separation axioms, Urysohn's lemma, the Tychonoff theorem, and complete metric spaces.

MATH 4180 Functions of a Complex Variable 3 hours
Prerequisite: Grade of C or above in MATH 2470. Topics include conditions for analyticity, elementary functions, the fundamental theorem of algebra, power series, residues, poles, and conformal mapping.

MATH 4200 Introduction to Real Analysis I 3 hours
Prerequisite: Grade of C or above in MATH 2800. An introductory course in functions of a real variable, limits, continuous functions, differentiation, and Riemann integration.

MATH 4210 Introduction to Real Analysis II 3 hours
Prerequisite: Grade of C or above in MATH 4200. This course is a continuation of MATH 4200. Topics include numerical sequences and series, sequences and series of functions, functions of several variables, and the implicit function theorem.

MATH 4310 Theory of Numbers 3 hours
Prerequisite: Grade of C or above in MATH 2800. A study of elementary problems in number theory with topics from divisibility, congruences, residues, special functions, Diophantine equations, and continued fractions.

MATH 4550 Computer Applications in Operations Research 3 hours
Prerequisite: Grade of C or above in MATH 3650 or BUSA 3110. A study of various problems and models in the field of operations research. Topics will include linear programming, the transportation problem, the assignment problem, project scheduling, network models, and queuing theory. Computer software will be available to assist students in the computational aspects of their solutions.

MATH 4700 History of Mathematics 3 hours
Prerequisite: Grade of C or above in MATH 2450. A survey of the historical development of mathematics with emphasis on topics for secondary teachers.

MATH 4900 Independent Study 1-3 hours
Prerequisite: Approval of the instructor and the department head. Independent reading and study under the direction of a faculty member of the department covering selected topics not normally discussed in major course work. May be repeated for credit.

MATH 4910 Internship in Mathematics 1-3 hours
Prerequisite: Junior or Senior standing and approval of department head. Hands-on experience in the area of mathematics in an industrial, governmental, or education setting.

MATH 4950 Senior Project in Mathematics (W) (O) 1 hour
Prerequisite: Senior status or approval of the department head.
This course is designed to function as a capstone course for mathematics majors. Under the direction of a full-time mathematics faculty member, the student will select a mathematical topic and conduct independent explorations. Results will be communicated to the mathematics faculty by a research paper and presentation.

COURSES IN MIDDLE GRADES EDUCATION

Admission to teacher education is required for enrollment in all of the following courses. Check with coordinator for sequencing.

MGED 3010 Foundations of Middle Level Schools & Their Students 3 hours
This course examines the concepts, principles, theories, and research that supports the tenets of the middle school philosophy as well as current trends in middle level education. A primary focus of this course will be the unique nature and development of the middle level learner. Middle level candidates in this course will examine the physical, emotional, intellectual, social, and psychological development characteristics of the early adolescent. This course has been designated by North Georgia College & State University and the Teacher Education Department as a writing intensive course.

MGED 3015 Internship 1: Culture & Practice in Middle**Level Schools**

2 hours

This internship exposes middle level candidates to a number of diverse middle level schools and introduces them to district school cultures. Through observations of various schools, middle level candidates will be introduced to diversity and the range of school differences or commonalities. Middle level candidates will reflect on their observations and consider the implications of school structure/organization as it impacts culture, pedagogy, and student learning.

MGED 3020 Curriculum, Assessment & Technology

3 hours

In this course, students will examine the concepts, principles, theories, and research that guide the development of curriculum and assessment in middle level schools. A primary focus of this course will be the planning of instruction using the Understanding By Design approach employed in many Georgia schools. Additionally, students in this course will gain knowledge of technology applications that support teaching and learning. This course has been designated by North Georgia College & State University and the Teacher Education Department as an oral intensive course.

MGED 3115 Internship 2: Facilitation & Differentiation

2 hours

This field-based internship provides middle level candidates with an opportunity to work with upper level elementary students. Through a tutoring experience, the middle level candidates will use differentiated instruction designed to increase literacy skills and/or content knowledge. Middle level candidates will monitor their own instruction, consider the role of advocacy/advisor, and investigate community agencies/resources as they impact the individual learning needs of students.

MGED 3130 Teaching Content to Diverse Learners

3 hours

This course examines the principles, theories, and research pertaining to recognition of diverse learners and the process of designing curriculum for differentiation, and implementing best practices of instructional pedagogy. A primary focus of this course will be differentiation of instruction, content, process and product to ensure the optimum learning experience for all students. Students in this course will examine available resources, both community and school-based, and develop a proposal for communicating this information to parents and other stakeholders.

MGED 4010 Classroom Management & Organization

3 hours

This course focuses on the concepts, principles, theories, research, and practice of classroom management and organization. Developmentally appropriate practice for the middle level learner will be a primary focus in this course. The middle level candidate will examine the effects of classroom organization, school structure, student life experiences, and management strategies on teaching and learning. In addition, candidates in this class will consider the many and varied responsibilities that teachers have in the middle level environment.

MGED 4015 Internship 3: Decision Making

2 hours

Study of problems related to planning and executing developmentally appropriate learning experiences for students in middle level classrooms. A primary focus of

this course will be the application of strategies designed to motivate the students and manage the learning experience. Extensive daytime directed observation and participation in area schools is required.

MGED 4020 Instructional Strategies & Monitoring 3 hours

This course examines the concepts, theories, and research that support effective instruction. A primary focus of this course will be the composition of developmentally appropriate strategies and assessments. Middle level candidates in this course will work on creating inquiry-based strategies that motivate students to learn. In addition, candidates will assess their own performance and impact on the instructional process.

MGED 4315 Internship 4: Leadership & Reflection 3 hours

This internship is designed to lead the middle grades candidate through a reflective process concerning his or her ability to apply NMSA standards in a middle level classroom. Each candidate will complete a 360 degree analysis of his or her teaching effectiveness and construct a professional development plan for future growth. In addition, each candidate will complete an analysis of the various teacher leadership styles evident in his or her field placement and project their potential as a future leader.

COURSES IN MANAGEMENT

[R] Restricted to students who meet Enrollment Eligibility Requirements (p. 113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business, check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

MGMT 3661 Fundamentals of Management 3 hours

A course designed to familiarize students with the functions of management. Major emphasis is placed on planning, organizing, controlling, and leading the organization to improve performance. Attention is given to methods of building cooperation between functional areas within an organization and to building and operating cooperative alliances at an industry, national, or international level. This course should be taken late in the sophomore year or early in the junior year.

MGMT 3699 Special Topics in Management [R] 1-6 hours

An in-depth examination of a management topic. The course may be an independent study under the supervision of a member of the management faculty or may be a formal class. The content and requirements of this course will vary depending on the instructor and the subject of the course. The course is repeatable for up to 6 hours credit.

MGMT 4626 Labor Management Relations [R] 3 hours
A study of the origin of the labor movement, population and the labor force, organized labor, union organization and management, collective bargaining, the problems of unemployment, full employment, wage theory and policies, and labor legislation.

MGMT 4655 Advanced Operations Management [R] 3 hours
Prerequisites: BUSA 3120 and MGMT 3661. A continuation of BUSA 3120. An in-depth study of the nature and scope of production and operations management in modern manufacturing and service firms and industries are presented. A sampling of the topics emphasized includes quality control, inventory control, efficiency, planning and scheduling, and other OM principles. The intent of this course is to expose the students to real business applications, computer applications, and/or relevant academic research.

MGMT 4665 Human Resources Management [R] 3 hours
Prerequisite: MGMT 3661. A study of the processes and procedures leading to the effective recruitment, selection, placement, orientation, and continued training of an organization's human resources. Additional topics include personnel policies regarding performance appraisal, compensation, grievance procedures, collective bargaining, and promotion/discharge procedures.

MGMT 4667 Small Business Management [R] 3 hours
Prerequisite: MGMT 3661. A course designed to allow the student to explore issues that are relevant to the entrepreneur and small business owner/manager. The course focuses on the successful operation of a small business or entrepreneurial venture from the perspective of the owner. The instructional materials take a practical approach to operating a small business. Students will complete a research project that may include the development of a business plan, providing fieldwork for a small business client, or some other project focused on small business management.

MGMT 4668 Seminar in Management [R] 3 hours
Prerequisites: MGMT 3661 and junior or senior status. The study of contemporary management and organizational issues utilizing classic and current scholarly and popular business literature.

MGMT 4669 (PSYC 4669) Organizational Behavior [R] 3 hours
Prerequisite: MGMT 3661. The study of public and private sector organizations and the role of individual personality, group dynamics, internal and external political influences, interpersonal communication, and ethical behavior.

COURSES IN MILITARY SCIENCE

First Year - Basic Courses - MS I

MILS 1000 Leadership and Personal Development 1 hour

An introductory course designed to acquaint the student with general military subjects. Instruction includes a survey of the organization and role of the US Army, Army Reserve, and National Guard; history, features and benefits of the Army ROTC program; customs and traditions of the service; principles of war, tactics, and strategy.

MILS 1100 Introduction to Tactical Leadership 1 hour

A course designed to give the student the basic skills required to function as a leader in the Corps of Cadets and as a military officer. Instruction includes the planning and presentation of military instruction, stages of instruction, speech techniques, use of training aids and the preparation of lesson plans; the preparation of military correspondence; first aid; and other individual soldier skills.

Second Year - Basic Courses - MS II

MILS 2000 Innovative Team Leadership 1 hour

A course designed to introduce the student to small unit ground tactical operations. Emphasis is placed on the organization, capabilities, and employment of the rifle squad. Additional instruction is presented on the art of land navigation, including military and topographic map symbols, reference systems, and determining location, and the ability to accomplish terrain evaluation by map analysis.

MILS 2100 Tactical Leadership 1 hour

A continuation of small unit ground tactical operations instruction. Additional instruction includes performance oriented training designed to introduce the student to various military skills. Included is practical instruction in marksmanship and the use of military radios, radio net theory, codes, and ciphers.

MILS 2500 Independent Study 1 hour

Prerequisite: Permission of PMS/DOI.

A supervised research project under the mentorship of the MS II Instructor. Study project may be selected by the student with approval of the instructor or may be directed. Subject areas will require independent research and analysis concerning military problems or historical examples of significance. May be taken in lieu of, or in addition to, other military science courses with permission of PMS or DOI.

Third Year - Advanced Courses - MS III

Prerequisite: Student must have completed all MS I and MS II courses, or received placement credit from the Military Science Department's Director of Instruction, before they can take a MS III advanced course. Exceptions will be granted by the PMS on a case-by-case basis.

MILS 3000 Adaptive Team Leadership 2 hours
A performance-oriented program designed to develop students in those areas important to platoon level leadership. Instruction includes the organization, mission, and capabilities of the light infantry platoon. The course focuses on the important aspects of leadership through the use of case studies and participatory exercises. Areas covered include operations orders, troop leading procedures, fundamentals of offensive operations, and military planning process. The concept of combined arms integration for warfighting is introduced.

MILS 3100 Leadership in Changing Environments 2 hours
This course continues the leadership development initiated in MILS 3000 and utilizes the same performance-oriented style and organizational model. Students are introduced to advanced decision-making and the command estimate process. Additional areas of emphasis will be the fundamentals of planning combat, patrols, non-conventional tactics, and leadership development.

MILS 3200 Foundations of Military Theory 3 hours
This course is intended for cadets preparing for a military career and other students majoring in political science, business or history. MILS 3200 will develop an understanding of the philosophy of war in its various forms and an understanding of the theoretical concepts involved at the tactical, operational and strategic levels of the military art, with application to military operations, national and international politics, business planning and practices and to the understanding of military history.

MILS 3500 Independent Study 2 hours
Prerequisite: Permission of PMS.
A supervised research project under the mentorship of the MS III Instructor. Study project may be selected by the student with approval of the instructor or may be directed. Subject areas will require independent research and analysis concerning military problems or historical examples of significance. May be taken in lieu of, or in addition to, other military science courses with permission of PMS.

Fourth Year - Advanced Courses - MS IV

Prerequisite: Student must have completed all MS I, MS II (Placement credit for MS I and MS II classes is acceptable) and MS III courses. Exceptions will be granted by the PMS on a case-by-case basis.

MILS 4000 Developing Adaptive Leaders 2 hours
A study of command and staff relationships, staff structure, and staff functions. The course also covers inter-staff communications, military writing and correspondence and military briefings. Extensive use of the military decision making process is accomplished through case studies and problem-solving practical exercises. The modern battlefield is examined using the tenets of Army Operations and the seven operating systems.

MILS 4100 Leadership in a Complex World 2 hours
A study of the Uniform Code of Military Justice and its use by the junior officer. Includes a study of non-punitive corrective measures as well as an introduction to the Law of War. The last part of the semester is oriented toward providing essential information to the graduating cadets to ease their transition from student to Army officer. Focus is on key survival issues like finance, transportation, housing, evaluations, officer records, etc.

MILS 4300 Leadership Internship 3 hours
Corequisite and Prerequisite: Must meet all MS-IV prerequisites, be a graduate of NCOA in conjunction with successfully serving two semesters in the Corps as an NCO, be appointed an officer in the Corps of Cadets and have permission of the PMS. This is a Military Science preparation phase that enables cadets to enhance their leadership abilities. These leaders are responsible for discipline, morale, training, welfare and daily leadership of their subordinates. The theory and doctrine learned in NCOA and throughout the Military Science Junior (MS-III) and Senior (MS-IV) years are continually reinforced in the practical experiences of daily leadership and laboratories comprised of troop leading procedures, inspections, counseling subordinates, planning and executing activities, drill, and ceremonies.

MILS 4500 Independent Study 2 hours
Prerequisite: Permission of PMS/DOI.
A supervised research project under the supervision of the MS IV Instructor. Study project may be selected by the student with approval of the instructor or may be directed. Subject areas will require independent research and analysis concerning military problems or historical examples of significance. May be taken in lieu of, or in addition to, other military science courses with permission of PMS.

COURSES IN MARKETING

[R] Restricted to students who meet Enrollment Eligibility Requirements (p. 113) including completion of ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106 with a grade of C or better in each.

For descriptions of all courses taught by the Mike Cottrell School of Business, check the sections for ACCT, BUSA, ECON, FINC, MGMT, and MKTG.

MKTG 3700 Principles of Marketing 3 hours
A functional study of market organization designed to introduce the student to the major institutions and basic theories in the field of marketing. Levels of marketing, organizations' operations at each level and their functions, price policy, marketing cost, and relative efficiency of various marketing methods are principal topics. This course should be taken late in the sophomore year or early in the junior year.

MKTG 3710 Advertising [R] 3 hours
Prerequisite MKTG 3700. A study designed to examine theory and application of advertising in the context of integrated brand promotion along with the economic, regulatory and social effects of promotional activities.

MKTG 3720 Personal Selling [R] 3 hours
Prerequisite: MKTG 3700. A course that emphasizes the role of personal selling within organizations and its relationship to the marketing communications mix. Topics covered include prospecting, pre-approach planning, building the sales presentation, making the presentation and handling objections, and follow-up after the sale. Of particular focus will be the functions performed by salespersons and the use of various types of sales presentations. Managerial aspects of building and evaluating sales force performance are also included. Students will prepare and deliver a sales presentation.

MKTG 3730 Consumer Behavior [R] 3 hours
Prerequisite or corequisite: MKTG 3700 . A study of social, cultural, and economic processes involved in individual and household purchases and their relationship to aspects of target marketing.

MKTG 3740 Retailing [R] 3 hours
Prerequisite: MKTG 3700. An introductory course on the retailing industry with a managerial approach. The general topics include types of retail institutions, merchandising (retail mix and format), the price/service trade-offs, and consumer analysis. The course will cover strategy decisions involving location analysis, space planning and store configuration, and E-commerce/E-Tailing/Internet Marketing topics. The course will utilize a topical discussion format with case studies.

MKTG 3799 Special Topics in Marketing [R] 1-6 hours
An in-depth examination of a marketing topic. The course may be an independent study under the supervision of a member of the marketing faculty or may be a formal class. The content and requirements of this course will vary depending on the instructor and the subject of the course. The course is repeatable for up to 6 hours credit.

MKTG 4730 Marketing Research [R] 3 hours
Prerequisites: MATH 2400, MKTG 3700 & 3730. A study of the principles and methods of marketing research. Topics include information sources, applied project design and administration, data processing and analysis, and research report writing.

MKTG 4780 Marketing Management [R] 3 hours
Prerequisite: MKTG 4730. A study of various policies and problems requiring strategic decisions by marketing management in the areas of product policy, distribution policies and physical distribution, pricing, advertising, sales promotion, and management of personal selling.

COURSES IN MODERN LANGUAGES

MLAN 2010 Introduction to Linguistics 3 hours

Prerequisite: ENGL 1101 and 1102. An introduction to linguistics and related subfields, emphasizing the structure, history, and dialects of English, in preparation for advanced study in foreign languages, literature, education, psychology, computer science, and other disciplines.

MLAN 2015 DLI Language Maintenance & Enhancement 1 hour

A continuation of language study done at the Defense Language Institute (DLI). The NGCSU Department of Modern Languages directs language skills maintenance and enhancement provided by the DLI via distance learning. A maximum of 6 hours credit may be granted.

MLAN 4440 Teaching of Modern Languages 3 hours

Prerequisite: permission of the department and admission to the Teacher Education program. Corequisite: EDUC 4000. Study of modern foreign language methodology including issues in foreign language teaching, history of foreign language education, practical application of theory through activities, projects, and an extended field experience. Required of all foreign language teacher education majors.

COURSES IN MUSIC

MUAP 2510 Applied Secondary Voice: Lower Division 1 hour

Prerequisite: Audition. Performance-based instruction focusing on the attainment of vocal proficiency. Emphasis is given to the development of basic musicianship through technical exercises and standard vocal literature. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2520 Applied Secondary Piano: Lower Division 1 hour

Prerequisite: Audition. Performance-based instruction focusing on the attainment of piano proficiency. Emphasis is given to the development of basic musicianship through technical exercises and standard piano literature. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2530 Applied Secondary Brass: Lower Division 1 hour

Prerequisite: Audition. Performance-based instruction focusing on the attainment of brass proficiency. Emphasis is given to the development of basic musicianship through technical exercises and standard brass literature. Instruction may be given in either a group or individual setting or a combination of the two, depending upon

the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2540 Applied Secondary Woodwinds: Lower Division 1 hour
Prerequisite: Audition. Performance-based instruction focusing on the attainment of woodwind proficiency. Emphasis is given to the development of basic musicianship through technical exercises and standard woodwind literature. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2550 Applied Secondary Percussion: Lower Division 1 hour
Prerequisite: Audition. Performance-based instruction focusing on the attainment of percussion proficiency. Emphasis is given to the development of basic musicianship through technical exercises and standard percussion literature. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2560 Applied Secondary Strings: Lower Division 1 hour
Prerequisite: Audition. Performance-based instruction focusing on the attainment of string proficiency. Emphasis is given to the development of basic musicianship through technical exercise and standard string literature. Instruction may be given in either group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2610 Applied Principal Voice: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of vocal performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal vocal instruction must concurrently participate fully in a major NGCSU vocal performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2620 Applied Principal Piano: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of piano performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal piano instruction must concurrently participate fully in a related NGCSU performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2630 Applied Principal Brass: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of brass performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal brass instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2640 Applied Principal Woodwinds: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of woodwind performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal woodwind instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2650 Applied Principal Percussion: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of percussion performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal music instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 2660 Applied Principal Strings: Lower Division 2 hours
Prerequisite: Audition. Performance-based instruction focusing on the development of artistic ability. Emphasis is given to the development of string performance abilities through the study of standard repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal string instruction must concurrently participate fully in a major NGCSU performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4510 Applied Secondary Voice: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2510 and satisfactory completion of a division jury. A continuation of MUAP 2510 focusing on advanced vocal techniques with a greater emphasis on the study of standard vocal repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4520 Applied Secondary Piano: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2520 and satisfactory completion of a division jury. A continuation of MUAP 2520 focusing on advanced piano techniques with a greater emphasis on the study of standard piano repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4530 Applied Secondary Brass: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2530 and satisfactory completion of a division jury. A continuation of MUAP 2530 focusing on advanced brass techniques with a greater emphasis on the study of standard brass repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4540 Applied Secondary Woodwinds: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2540 and satisfactory completion of a division jury. A continuation of MUAP 2540 focusing on advanced woodwind techniques with a greater emphasis on the study of standard woodwind repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4550 Applied Secondary Percussion: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2550 and satisfactory completion of a division jury. A continuation of MUAP 2550 focusing on advanced percussion techniques with a greater emphasis on the study of standard percussion repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4560 Applied Secondary Strings: Upper Division 1 hour
Prerequisites: Accumulation of 2 hours credit in MUAP 2560 and satisfactory completion of a division jury. A continuation of MUAP 2560 focusing on advanced string techniques with a greater emphasis on the study of standard string repertoire. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUAP 4610 Applied Principal Voice: Upper Division 2 hours
Prerequisites: Accumulation of 4 hours credit in MUAP 2610 and satisfactory completion of a division jury. A continuation of MUAP 2610 focusing on public performance of standard solo vocal repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal vocal instruction must concurrently participate fully in a major NGCSU vocal performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUAP 4620 Applied Principal Piano: Upper Division 2 hours
Prerequisites: Accumulation of 4 hours credit in MUAP 2620 and satisfactory completion of a division jury. A continuation of MUAP 2620 focusing on public performance of standard solo piano repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal piano instruction must concurrently participate fully in a related NGCSU performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUAP 4630 Applied Principal Brass: Upper Division 2 hours
Prerequisites: Accumulation of 4 hours credit in MUAP 2630 and satisfactory completion of a division jury. A continuation of MUAP 2630 focusing on public performance of standard solo brass repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal brass instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUAP 4640 Applied Principal Woodwinds: Upper Division 2 hours
Prerequisites: accumulation of 4 hours credit in MUAP 2640 and satisfactory completion of a division jury. A continuation of MUAP 2640 focusing on public performance of standard solo woodwind repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal woodwind instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUAP 4650 Applied Principal Percussion: Upper Division 2 hours
Prerequisites: Accumulation of 4 hours credit in MUAP 2650 and satisfactory completion of a division jury. A continuation of MUAP 2650 focusing on public performance of standard solo percussion repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal percussion instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUAP 4660 Applied Principal Strings: Upper Division 2 hours
Prerequisites: Accumulation of 4 hours credit in MUAP 2660 and satisfactory completion of a division jury. A continuation of MUAP 2660 focusing on public performance of standard solo string repertoire. A combination of individual and group instruction provides preparation for public performance. Each student who is enrolled for applied principal string instruction must concurrently participate fully in a major NGCSU instrumental performance ensemble, regardless of whether the student chooses to enroll for ensemble credit. A student may accumulate a maximum of 16 credit hours in this course.

MUSIC AND MUSIC EDUCATION COURSES

MUED 4210 Choral Music Curriculum and Methods 2 hours

Prerequisite: MUSC 1002 or permission of instructor. A course in which students will develop a knowledge of skills necessary to design and implement a choral music program in an academic instructional context. Primary instruction will focus on topics which relate specifically to choral music and its interrelationship with overall middle and secondary school curricula. Class instruction will also include components in multiculturalism and technology in education. Metacognitive model of learning will be emphasized. Students will gain understanding of theoretical concepts in classroom management and explore practical application of techniques necessary for the implementation of diverse behavior modification plans, as specifically related to the music classroom. Field experiences will be integrated with the academic instruction.

MUED 4220 Instrumental Music Curriculum and Methods 2 hours

Prerequisite: MUSC 1002 or permission of instructor. A course in which students will develop a knowledge of skills necessary to design and implement an instrumental music program in an academic instructional context. Primary instruction will focus on topics which relate specifically to instrumental music and its interrelationship with overall middle and secondary school curricula. Students will also learn practical abilities of performers at different levels of development. Instruction will also include components in multiculturalism and technology in education. Metacognitive model of learning will be emphasized. Students will gain understanding of theoretical concepts in classroom management and explore practical application of techniques necessary for the implementation of diverse behavior modification plans as specifically related to the music classroom. Field experiences and observation will be integrated with the academic instruction.

MUED 4230 Keyboard Music Curriculum and Methods 3 hours

Prerequisite: MUSC 1002 or permission of instructor. A course in which students will develop a knowledge of skills necessary to design and implement a keyboard music program in an academic instructional context. Primary instruction will focus on topics which relate specifically to keyboard music, such as "selecting piano literature for students of various types and abilities." Students will also learn practical abilities of performers at different levels of development. Class assignments will include evaluation of differing methods of instruction. Academic instruction will also include components in multiculturalism and technology in education. Metacognitive model of learning will be emphasized. Field experiences and observation will be integrated with the academic instruction.

MUSC 1001 Music Theory I: Tonic/Dominant Relationships 3 hours
An introductory study of various aspects of musical theory such as tonality, cadence, form, melody, rhythm, and harmony, through the use of tonic and dominant triads. Concepts are presented in both aural and written formats. Class work consists of aural recognition (dictation), written recognition (analysis), and written presentation (composition). Class assignments make regular use of MIDI technology. Students enrolled in this course develop critical thinking skills by making value judgments about music that is presented in class and by composing music of their own origin.

MUSC 1002 Music Theory II: Diatonic Harmonic Progression 3 hours
Prerequisite: MUSC 1001. A continuation of Music Theory I, focusing on applications of the circle-of-fifths theory of diatonic harmonic progression. Emphasis is given to the development of the ability to integrate the various roles of listener, analyst, educator, performer, and composer as they relate to the assimilation of theoretical knowledge. The class format for this course (and subsequent courses) follows the model set forth in Music Theory I.

MUSC 1100 Music Appreciation And Survey 3 hours
An introduction to music history and literature. Students enrolled in this course are required to attend a prescribed number of exhibitions, concerts, guest lectures, and/or other cultural presentations which occur throughout the campus outside the regular class time. This attendance requirement, which will be stated in writing at the beginning of each term, is considered to be an integral component of the liberal arts education provided by North Georgia College & State University. NOTE: Successful completion of MUSC 1100 fulfills the three-hour fine arts requirement as stated in Area C of the core curriculum.

MUSC 1310 Class Voice 1 hour
An introductory course in voice for students who have had little or no previous instruction. Basic vocal techniques incorporating diaphragmatic support, focus, resonance, and diction are studied through the use of unison and solo song material. The laboratory instructional context is reinforced by performance-based assessment.

MUSC 1320 Class Piano for non-majors 1 hour
An introductory course in piano for students who have had little or no previous instruction. Emphasis will be on music reading, rhythmic skill, and basic keyboard technique. Assessment is performance-based. The laboratory instructional context is reinforced by performance-based assessment. A student may accumulate a maximum of four credit hours in this course.

MUSC 1321 Class Piano I 1 hour
Prerequisite: basic music reading skills. An introductory course in piano designed for music majors who have had little or no previous keyboard instruction. Emphasis will be on developing basic keyboard technique and rhythmic skill. The laboratory instructional context is reinforced by performance-based assessment.

MUSC 1322 Class Piano II 1 hour
Prerequisite: MUSC 1321 or permission of instructor. Continuation of Class Piano I. Further development of keyboard skills including scales and chord progressions. The laboratory instructional context is reinforced by performance-based assessment.

MUSC 2001 Music Theory III: Chromatic Harmony 3 hours
Prerequisite: MUSC 1002. A continuation of Music Theory II, focusing on various aspects of chromatic harmony, including secondary-function chords, mode mixture, and modulation. Emphasis is given to the aural and formal analysis of major works by composers such as Mozart and Beethoven.

MUSC 2002 Music Theory IV: Advanced Theoretical Concepts 3 hours
Prerequisite: MUSC 2001. A continuation of Music Theory III, focusing on advanced aspects of common practice musical theory. This course concludes with an introduction to impressionism, serialism, and various other 20th-century compositional techniques.

MUSC 2011 Sight Singing I 1 hour
Prerequisite: MUSC 1002, or permission of instructor. The study and development of the aural skill of sight singing in a diatonic framework, including melodic and rhythmic transcriptions and error detection, through classroom experiences and outside computer exercises.

MUSC 2012 Sight Singing II 1 hour
Prerequisite: MUSC 2011, or permission of instructor. A continuation of MUSC 2011. Further study and development of the aural skill of sight singing through classroom experiences and outside computer exercises. Introduction and study of chromatic materials and increasingly complex rhythms and meters.

MUSC 2321 Class Piano III 1 hour
Prerequisite: MUSC 1322 or permission of instructor. Continuation of Class Piano II. Further development of keyboard skills including sight reading and harmonization. The laboratory instructional context is reinforced by performance-based assessment.

MUSC 2322 Class Piano IV 1 hour
Prerequisite: MUSC 2321 or permission of instructor. Continuation of Class Piano III. Further development of keyboard skills including improvisation and intermediate piano literature. The laboratory instructional context is reinforced by performance-based assessment.

MUSC 2340 Music Composition: Lower Division 2 hours
Prerequisite: MUSC 1001. Performance-based instruction in the development of the basic skills necessary for music composition. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUSC 3010 Orchestration 2 hours
Prerequisite: MUSC 3230. The study of the technical characteristics, performance idioms and notation standards of musical instruments and the techniques of scoring for those instruments individually and in groups. Incorporates the transcription of musical examples from one genre to another and the adaptation of musical styles. Application of current digital music technology is integrated into the curriculum.

MUSC 3020 Form and Analysis 2 hours
Prerequisite: MUSC 2002. Detailed aural and visual analysis of the structural elements of music, including motives, phrases, periods, common formal design structures, and compositional processes as found in representative musical works.

MUSC 3201 Beginning Conducting 2 hours
Prerequisite: MUSC 1002 or permission of instructor. Basic conducting technique with conducting exercises and examples from the choral and instrumental music repertoires will be used to enhance student understanding of effective conducting gestures and will help lay the foundation for conducting as visual communication. Emphasis will be given to the application of conducting techniques in a classroom instructional context.

MUSC 3202 Advanced Conducting 2 hours
Prerequisite: MUSC 3201 or permission of instructor. Continuation of MUSC 3201. Advanced conducting skills through the use of conducting examples representative of the main periods of music history will be stressed. The continued development of baton technique and score study coupled with the use of conducting analysis projects will be expected. Emphasis will be given to the application of conducting techniques in a classroom instructional context.

MUED 3210 Creative Music: The Young Child 3 hours
A course in which current music education philosophy and curriculum planning and assessment will be addressed using materials and methods appropriate for young children. Principal educational methods, such as Kodaly, Orff, and Dalcroze, will be examined and related to general early childhood curriculum. Class instruction will also include components in multiculturalism and technology in education. Metacognitive model of learning will be emphasized. Field experiences with young children will allow for practical training in classroom management.

MUSC 3230 Music Technology 2 hours
Prerequisite: MUSC 1002. A course designed to acquaint experienced musicians with current, relevant music technology focusing on both instructional and studio contexts. This course includes an overview of the current technology available in many classrooms and studios, hands-on experience with applications of current technology, and integration of technology and software into various musical settings. Instruction focuses on understanding basic acoustics, using audio equipment, and working with music on computers, digital devices and the internet.

MUSC 3310 Keyboard Improvisation 1 hour
Prerequisite: MUSC 2321 or permission of instructor. Techniques for the realization of harmonic accompaniment at the piano. Instruction focuses on the development of a solid understanding of the circle-of-fifths harmonic progression in an applied context.

MUSC 3321 Instrumental Music Techniques: Brass 1 hour
Prerequisite: MUSC 1002 or permission of instructor. An intensive course designed for music students who are planning to teach and are working for certification P-12. Students will be required to demonstrate a basic playing facility on one or more brass instruments. In addition, the course will deal with the principles and specific problems of each instrument in the brass family, and students will be expected to demonstrate the basic concepts and procedures used in teaching brass instruments to beginners. Instruction includes development of a solid understanding of transposition as it applies to instrumental music performance.

MUSC 3322 Instrumental Music Techniques: Woodwinds 1 hour
Prerequisite: MUSC 1002 or permission of instructor. An intensive course designed for music students who are planning to teach and are working for certification P-12. Students will be required to demonstrate a basic playing facility on one or more woodwind instruments. In addition, the course will deal with the principles and specific problems of each instrument in the woodwind family, and students will be expected to demonstrate the basic concepts and procedures used in teaching woodwind instruments to beginners. Instruction includes development of a solid understanding of transposition as it applies to instrumental music performance.

MUSC 3323 Instrumental Music Techniques: Percussion 1 hour
Prerequisite: MUSC 1002 or permission of instructor. An intensive course designed for music students who are planning to teach and are working for certification P-12. Students will be required to demonstrate a basic playing facility on all of the basic percussion instruments. In addition, the course will deal with principles and specific problems of each instrument in the percussion family, and students will be expected to demonstrate the basic concepts and procedures used in teaching percussion instruments to beginners.

MUSC 3324 Instrumental Music Techniques: Strings 1 hour
Prerequisite: MUSC 1002 or permission of instructor. An intensive course designed for music students who are planning to teach and are working for certification P-12. Students will be required to demonstrate a basic playing facility on one or more string instruments. In addition, the course will deal with the principles and specific problems of each instrument in the string family, and students will be expected to demonstrate the basic concepts and procedures unused in teaching strings to beginners.

MUSC 3330 Introduction to Jazz Improvisation 2 hours
Prerequisite: MUSC 1002 or permission of instructor. An intensive course for music students who are interested in developing basic skills in jazz improvisation. Students will be required to develop proficiency in the fundamentals of improvisa-

tion including interpretation of standard chord symbols, transcription of classic jazz solos, critical listening, understanding of simple jazz theory practices, and development of stylistically accurate performance practice.

MUSC 3401 Music History I (W)

3 hours

Prerequisite: MUSC 1002 or permission of instructor. A survey of the history of Western music from ancient times to the end of the classical period, designed to acquaint the student with music literature within an historical perspective. Emphasis is given to the development of critical thinking skills through the execution of value judgments about music that is presented in class. Selected works will be examined through audio and visual presentations, lectures, and readings.

MUSC 3402 Music History II (W)

3 hours

Prerequisite: MUSC 1002 or permission of instructor. A survey of the history of western music from the beginning of the romantic period through the present, designed to acquaint the student with music literature within an historical perspective. In addition to western music, the music of various other cultures is explored. Emphasis is given to the development of critical thinking skills through the execution of value judgments about music that is presented in class. Selected works will be examined through audio and visual presentations, lectures and readings.

MUSC 3410 Religious Music

3 hours

A survey of traditional and contemporary religious music and its effect on music literature. Emphasis is given to the exploration of the religious music of various cultures. Other topics include hymnology and contemporary worship practices. Students develop critical thinking skills through the execution of value judgments about music that is presented in class. Selected works will be examined through audio and visual presentations, lectures and readings.

MUSC 3710 NGCSU Singers

1 hour

Prerequisite: Audition. Open to all qualified students by audition. The NGCSU Singers is the university's premier choral ensemble, presenting performances of various styles of vocal music both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time, including annual tours which may occur during spring break. This ensemble tours regularly throughout the United States and overseas.

MUSC 3720 NGCSU Patriot Choir

1 hour

Prerequisite: Audition. Open to all qualified male ROTC students by audition. The Patriot Choir is the official choral ensemble of the NGCSU Corps of Cadets, presenting performances of TTBB literature both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time, including tours which may occur during spring break.

MUSC 3730 NGCSU Women's Chorus 1 hour
Prerequisite: Audition. Open to all qualified female students by audition. The NGCSU Women's Chorus presents concerts of treble-voice choral literature both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3740 Madrigal Singers 1 hour
Prerequisite: Audition. Open to qualified students by audition. Presents performances of various styles of music appropriate for a select mixed chamber choir, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3810 NGCSU Symphonic Band 1 hour
Prerequisite: Audition. Open to all qualified students by audition. The NGCSU Symphonic Band is the university's premier instrumental ensemble, presenting performances of various styles of instrumental music both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time, including tours which may occur during spring break.

MUSC 3820 NGCSU Golden Eagle Band 1 hour
Prerequisite: Audition. Open to all qualified students by audition. The NGCSU Golden Eagle Band is the official instrumental ensemble of the NGCSU Corps of Cadets. The unit regularly marches in parades and attends festivals throughout the Southeast. Literature includes traditional marches, as well as pop arrangements performed on and off the campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3830 NGCSU Jazz Orchestra 1 hour
Prerequisite: Audition. Open to qualified students by audition, with consideration of instrumentation needs for a standard 17-piece jazz ensemble. The NGCSU Jazz Orchestra presents performances of various styles of music, ranging from big-band to contemporary jazz, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3840 Orchestra 1 hour
Prerequisite: Audition. Open to qualified students by audition. Presents performances of various styles of music appropriate for orchestral ensembles, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3910 Jazz Combo

1 hour

Prerequisite: Audition. Open to all qualified students by audition. Various ensembles may be organized to meet the needs of students enrolled. These ensembles present performances of various styles of music, ranging from big-band to Dixieland jazz to contemporary jazz and pop, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3920 Chamber Ensemble

1 hour

Prerequisite: Audition. Open to all qualified students by audition. Various ensembles may be organized to meet the needs of students enrolled. These ensembles present performances of various styles of music, ranging from Renaissance to classical to Avant-guard, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3930 Percussion Ensemble

1 hour

Prerequisite: Audition. Open to qualified students by audition. Presents performances of various styles of music appropriate for percussion instruments of all types and combinations, both on and off campus throughout the academic year. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 3940 Music Theatre Workshop

1 hour

Prerequisite: Audition. The study and preparation of operatic and/or Broadway musical theatre selections, scenes, and productions, culminating in a public performance. Ensemble members are required to participate in rehearsals and performances beyond the stated regular class time.

MUSC 4290 Seminar In Teaching Music

1 hours

Prerequisites: MUED 4210 & MUED 4220 or permission of the instructor. This course is designed to be the "capstone" course in music education to explore the philosophies, teaching methods, materials, and curriculum at both the elementary/general music and the middle/senior high school levels. Focus will be on the design and implementation of the instrumental and vocal performance-based curriculum at the secondary level and the general music curriculum for students in related arts courses, music theory and composition classes, music listening and music history classes at the secondary level, as well as the general music curriculum for the elementary classroom. In addition to exploring teaching strategies and curriculum development, students will study evaluation tools and methodologies which are content specific. Students will also be given practical guidance in the administration of a comprehensive music program. Directed observation and teaching in selected schools is required.

MUSC 4310 Senior Recital (O)

0 hours

Prerequisite: six hours credit in MUSC 4610, 4620, 4630, 4640, 4650 or 4660. A capstone course for students majoring in music or music education. The culmination of this course is the public presentation of a senior recital in the major

applied music area of study. The course will also require an oral and written report supporting the performance. In special cases in which a public recital is not feasible, a student may present a senior-level project in a related area, such as composition or music history. In either case, the recital program or project prospectus will require the approval of the major applied music instructor and the Fine Arts Department Head.

MUSC 4320 Special Projects In Music 1-3 hours

Prerequisites: MUSC 2002 and permission of the Fine Arts Department Head.

A course offered on an as-needed basis to upper-class students who wish to do special directed music studies of an advanced nature which do not conform to the guidelines of another course offering.

MUSC 4340 Music Composition: Upper Division 2 hours

Prerequisite: accumulation of 4 hours credit in MUSC 2340 and permission of instructor. A continuation of MUSC 2340 focusing on advanced compositional techniques with a greater emphasis on structure, unity and variety. Instruction may be given in either a group or individual setting or a combination of the two, depending upon the starting level and academic needs of the student. A student may accumulate a maximum of 8 credit hours in this course.

MUSC 4410 Keyboard Literature 3 hours

A survey of compositions for harpsichord and piano from the Renaissance to the present as well as stylistic and formal analysis of representative works. Students develop critical thinking skills through the execution of value judgments about music that is presented in class. Selected works will be examined through audio and visual presentations, lectures, and readings.

COURSES IN NURSING (ASN)

NURS 1001 Pre-Nursing Strategies 2 hours

Prerequisite: Pre-Nursing major or permission of instructor. This course is designed for pre-nursing students who have an interest in exploring and preparing for a course of study in the profession of nursing. The course will focus on academic preparation for nursing curriculum, exploration of the history of nursing, and current job trends in the field of nursing. Emphasis will also be placed on the transition to becoming a member of the profession. (Elective)

NURS 1020 Principles of Nutrition and Nutrition Therapy 1 hour

Prerequisites: Admission into the ASN Program or permission of Instructor. This course introduces the student to the principles of the science of nutrition support. The student will apply learned materials to developing skill in assessing, teaching, and counseling individuals, families, and other community groups and health, illness, and enhancing health seeking behaviors. Emphasis is on the biochemistry of normal nutrition, introducing elements related to and common

alterations across the lifespan as well as the nurses's role in therapeutic nutrition practices (modifications made to the normal diet to meet a person's nutritional needs during illness).

NURS 1090 Transitional Concepts 5 hours

(2 hours class, 9 hours clinical per week)

Prerequisites: Admission to Nursing Program, Completion of specified Core Courses, LPN license. Pre/corequisites: NURS 1020

This course reviews fundamental nursing concepts to enable the Licensed Practical Nurse to matriculate into the second year of the Associate Degree Nursing Program. Content is designed to foster role transition and adaptation. Clinical nursing skills are validated as the student is introduced to the roles of the ASN nurse in caring for persons as unique, dynamic, bio-psycho-socio-spiritual beings in a complex multicultural community. Health promotion and illness prevention as well as the response of the person to illness, within the context of his/her environment, are emphasized.

NURS 1100 Basic Concepts Essential to Nursing Practice 5 hours

(2 hours class, 9 hours lab/week)

Prerequisites: Admission to Nursing Program; Pre- or Corequisite: Anatomy & Physiology I and Nutrition / Nutrition Therapy. This course provides an introduction to the roles of the associate degree nurse and entry into the health care system. The student is introduced to basic concepts essential to the practice of nursing. These concepts include wellness/illness, communication and telecommunication, theories of human behavior and selected nursing theories, critical thinking and problem solving, human adaptations and responses to stress/anxiety, the loss/grief process, and values and ethics within the community of health care. Students will participate in simulation lab experiences, as well as the provision of client care in acute care and community practice settings.

NURS 1110 Fundamental Concepts/Integrated Nursing Skills 5 hours

(2 hours class, 9 clinical hours/week)

Prerequisites: Nursing 1100, Anatomy and Physiology I; Pre- or Corequisite: Anatomy & Physiology II. This course is designed to assist the novice-nursing student to learn and apply selected skills utilized in nursing practice. Students will participate in simulation lab experiences, as well as, the provision of client care in acute care and community settings. Practice settings are rural and urban with multicultural clients across the lifespan.

NURS 1130 General Principles of Nursing Pharmacology 2 hours

Prerequisites: Successful Completion of Nursing 1100; Co-requisites: NURS 1110, NURS 1090 for LPN Bridge Students only.

This is a web enhanced course using classroom and computer instruction that focuses on the role of the ASN nurse in the administration of medications to clients in both community based and acute care settings. An organized framework is used to present drugs by therapeutic or pharmacological class. Emphasis is placed on the nurse's role in pharmacological therapy as it relates to the physiological integrity of the client. This course will incorporate principles of holism,

caring, ethical nursing practice and cultural competence into the responsibilities of medication administration. This course requires students to have access to an Internet-connected computer.

NURS 1200 Professionalism in Nursing 1 hour
Corequisite: Enrollment in ASN program. This course will provide ASN students with an introduction to concepts of nursing leadership as viewed by the Georgia Association of Nursing Students (GANS) and the National Student Nurse Association (NSNA). Students will have the opportunity to participate/practice in group work, leadership roles, self-governance, advocacy for the rights of patients, the legislative process, and other activities that broaden their vision of the nursing profession. (Elective)

NURS 1205 Professionalism in Nursing II 1 hour
Corequisite: Enrollment in ASN program. This course will provide ASN students with an opportunity to utilize concepts of nursing leadership as viewed by the Georgia Association of Nursing Students (GANS) and the National Student Nurse Association (NSNA). Students will have the opportunity to participate / practice in group work, leadership roles, self-governance, advocacy for the rights of patients, the legislative process, and other activities that broaden their vision of the nursing practice. (Elective)

NURS 1210 Professionalism in Nursing III 1 hour
Corequisite: Enrollment in ASN program, 2nd Year. This course will provide 2nd year ASN students with further exploration of concepts of nursing leadership as viewed by the Georgia Association of Nursing Students (GANS) and the National Student Nurse Association (NSNA). Students will have the opportunity to participate/practice in group work, leadership roles, self-governance, advocacy for the rights of patients, the legislative process, and other activities that broaden their vision of the nursing profession. (Elective)

NURS 1220 Professionalism in Nursing IV 1 hour
Corequisite: Enrollment in ASN program, 2nd year. This course will provide 2nd year ASN students with further exploration of concepts of nursing leadership as viewed by the Georgia Association of Nursing Students (GANS) and the National Student Nurse Association (NSNA). Students will have the opportunity to participate/practice in group work, leadership roles, self-governance, advocacy for the rights of patients, the legislative process, and other activities that broaden their vision of the nursing profession as they relate to preparation for graduation and future employment as an RN. (Elective)

NURS 2110 Care of the Psychiatric / Mental Health Client 5 hours
(2 hours class, 9 hours clinical per week)
Prerequisites: Completion of First-Year Nursing Curriculum. Pre/corequisites: Medical Microbiology in Fall Semester of 2nd year. This course focuses on the role of the Associate degree nurse in providing care for the adult, geriatric, and pediatric client encountered in psychiatric settings. Actual and potential alterations in the mental health along with mental health promotion needs of this client

population will be addressed in both community-based and acute inpatient settings. Students will be required to further develop nursing skills in their role as provider of care while applying the principles of holism, caring, ethical nursing practice, and cultural competence. Students will also demonstrate mastery in the roles of the therapeutic communicator and teacher. In addition, students will be expected to acquire skills in the role of manager of care and develop identity as a member within the nursing profession. Student clinical performance will be evaluated relative to the sequence of progression in the program of study.

NURS 2130 Care of the Maternal / Child Client 5 hours

(2 hours class, 9 hours clinical/week)

Prerequisites: Completion of First-Year Nursing Curriculum. Pre/Co-requisite: Medical Microbiology in Fall Semester of 2nd year. This course focuses on the role of the Associate degree nurse in providing care for the family during the child-bearing stage and for the newborn client. Health promotion needs and alterations in health of the childbearing family will be addressed in both community-based and acute inpatient settings. Students will be required to provide nursing care for this client population applying the principles of holism, caring, ethical nursing practice, and cultural competence. Students' clinical performance will be evaluated relative to their level in the program of study.*

NURS 2140 (W) Care of the Pediatric Client 5 hours

(2 hours class, 9 hours clinical per week)

Prerequisites: Completion of First-Year Nursing Curriculum and Medical Microbiology in Fall Semester of 2nd year. This course focuses on the role of the Associate degree nurse in providing care for pediatric clients from one month through adolescence. Health promotion needs and alterations in health of the pediatric client will be addressed in both community-based and acute inpatient settings. Students will be required to provide nursing care for this client population applying the principles of holism, caring, ethical nursing practice, and cultural competence. Students' clinical performance will be evaluated relative to their level in the program of study.*

NURS 2160 (W) Care of the Adult / Gerontologic Client 5 hours

(2 hours class, 9 hours clinical per week)

Prerequisites: Completion of First-Year Nursing Curriculum & Medical Microbiology in Fall Semester of 2nd year. This course focuses on the role of the Associate degree nurse in providing care for the adult/gerontologic client population. Actual and potential alterations in health along with health promotion needs of this client population will be addressed in both community-based and acute inpatient settings. Students will be required to further develop technical nursing skills in their role as provider of nursing care while applying the principles of holism, caring, ethical nursing practice, and cultural competence. Students will also demonstrate increasing skill mastery in the roles of communicator and teacher. In addition, students will be expected to acquire skills in the role of manager of client care and to develop identity as members within the nursing profession. Student clinical performance will be evaluated relative to the sequence of progression in the program of study*.

*Differentiation between levels within the program of study will be developed and clearly stated in the course syllabi.

Recommended but not required:

Medical Terminology	SCI 1000
Medical Spanish	SPAN 1200

COURSES IN NURSING (BSN)

NURS 3000 Critical Care Nursing 2 hours (elective)

Prerequisite: Associate Degree or Diploma in nursing. This is a didactic course which prepares the undergraduate nursing student to begin practicing in the critical care environment. This type of nursing requires sophisticated, intensive, and humanistic care. This course blends theoretical concepts with pathophysiology, internal and external environmental interactions within the framework of the nursing process. The content includes the major organ systems including the nervous, endocrine, renal, respiratory, cardiovascular, gastrointestinal, immune, and hematologic systems. The focus of this nursing elective is the clinician role of the professional nurse in secondary or tertiary care settings.

NURS 3110 The Transformation to Professional Nursing (W) (O) 3 hours (3 hours of class per week)

Prerequisite: Admission to the BSN Program. A survey course designed to increase the RN student's awareness and understanding of the changes occurring in professional nursing practice and concepts that influence delivery of nursing care. The philosophy and conceptual framework of the Nursing Curriculum at North Georgia College & State University, which is based on Benner, provide the structure for the course content. Course content focuses on socialization into the five roles of the professional nurse, written and oral communication and problem solving, decision-making, ethics, and the concept of caring. Critical thinking is used to examine nursing theorists/theories and health care delivery systems. Ethical decision making is used within the five professional roles to plan care for individuals, families, groups, and communities.

NURS 3150 Teaching Adults in Nursing Practice 2 hours (elective)

Prerequisite: Completion of 1st year ASN. A course designed to examine several theories of adult learning and recommended methods of facilitating adult learning. Theorists include Brookfield, Cross, Friere, Knowles, and Mezirow. Application of a theory of adult learning in a patient education and/or staff development setting will be explored.

NURS 3200 Introduction to Nursing Information 3 hours (3 hours class)

Prerequisite: Completion of NURS 3110 or currently enrolled in NURS 3110. This Vista course introduces RN-BSN students to theory, application, technical

skills and the process of integrating nursing informatics into professional nursing practice. Students will create documents and assignments which will integrate nursing information theory and skills into both the content and mode of learning. The principles of learning styles, adult learning, and critical thinking will be incorporated and applied to the learning environment. Leadership competencies related to ethical and management issues include accountability, client confidentiality and privacy, quality assurance and documentation in the use of selected applications.

NURS 3210 Introduction to Health Policy (W) 3 hours
(3 hours class)

Prerequisite: Completion of NURS 3110 or 3210. Currently enrolled in NURS 3110.

Health care professionals should be well acquainted with the structure of the United States health care systems. This course is an introduction to the development and analysis of a wide range of issues facing health care providers, payers, and consumers as well as the current health care reform strategies. Focal areas of this course include what is health policy and the legislative process in policy making, access to health care in the United States, health care delivery systems, the economics of healthcare, and healthcare reform efforts. Current issues influencing health care institutions and professionals will be discussed.

NURS 3250 Cultural Immersion - A Healthcare Experience 3 hours (elective)

Students will spend a week in a identified country providing healthcare to an underserved population. Students will have the privilege of working with local health care providers and will also work with clinic staff to visit nearby villages to provide medical and nursing care. Common diagnoses could include: backaches, gastritis, arthritis, coughs/sinus problems, skin infestations and infections, parasites. Opportunities for education focused at prevention and wellness are abundant.

NURS 3330 Cultural & Health Assessment 6 hours
(4 hours of class, 4 hours of lab per week)

Prerequisite: NURS 1110 or RN Licensure. The course prepares the A.S.N./B.S.N. student to conduct culturally sensitive comprehensive health assessments of diverse populations. Emphasis is placed on the acquisition, processing, and interpretation of data collected from clients of diverse ages and cultures. Diagnostic reasoning skills are developed with consideration of client's cultural/ethnic background. The impact of health beliefs, values, heredity, and environmental factors on the acceptability of health care practices is analyzed. Laboratory experiences will focus on the physical examination of selected clients.

NURS 3410 Analysis and Reasoning in Nursing (W) 3 hours
(3 hours of class per week)

Prerequisites: NURS 3110, RN Licensure; Math 2400 is strongly recommended as a pre-requisite. This course is designed to provide a foundation for the significance of analysis and reasoning in nursing, and their applicability to nursing practice and

health care delivery. Students will be prepared to become knowledgeable nursing research consumers and to understand, evaluate, and apply the research process.

NURS 3500 A Cultural Experience in the Art of Healing 3 hours
(Elective) Prerequisite: Completion of the first-year ASN program. This course is designed to explore health care in the Navajo Nation. Nursing students will have the unique opportunity to observe how modern and traditional medicine work together to benefit the client in a variety of clinical settings. Students will also have the privilege of meeting many health care providers and Navajo people as well as explore Arizona's desert and mountain regions.

NURS 3580 Transcultural Communication in Nursing 2 hours (elective)
Prerequisite: None. A course designed to help the student acquire the communication skills necessary to provide quality care in today's multicultural health care system. Classroom activities will focus on improving the student's ability to recognize and overcome cultural biases, learning about different styles of communication, and developing transcultural communication skills.

NURS 4000 Independent Study of Nursing 1-3 hours (elective)
Prerequisite: RN Licensure / Approval of BSN Coordinator and BSN Faculty. A course designed to enable nurses to pursue more detailed study of the content of another course or to analyze a topic not currently covered in the nursing curriculum. The focus of the independent study must be approved by the supervising faculty member.

NURS 4010 Nursing Research Practicum 2 hours (elective)
Prerequisite: NURS 3410. This course offers the student an opportunity for active participation in a nursing research project with the approval of the supervising faculty member(s). This course allows students to apply their beginning research skills to selected areas of focus.

NURS 4410 Nursing in the Community (W) 6 hours
2nd BSN Clinical Course
(4 hours class; 6 hours of clinical per week)
Prerequisites: NURS 3330, 3110, 3200, 3210. RN licensure. Corequisite: NURS 3410. This course is designed to assist the novice, as well as the more advanced community health nurse, meet the challenges of nursing in the community. Students will experience the integration of the multidisciplinary approach to caring for individuals, families, groups, and communities. Emphasis in the classroom, as well as in the clinical area, is on a holistic approach to health care, health promotion, and prevention techniques. The ethics of community health care and contemporary community health issues will also be examined.

NURS 4520 Professional Nursing Leadership (O) 5 hours
(4 hours class, 3 hours per week for clinical activity)
Prerequisites: NURS 3200, 3210, 3330, 3410, 4410, RN Licensure. This course introduces the student to concepts related to leading and managing in a complex, rapidly changing health care environment. It emphasizes the practical application

of nursing management and leadership concepts and skills in relation to contemporary nursing issues. Discussion of research findings and relevant theoretical formulations relative to real world problems are a significant part of the course.

NURS 4600 Synthesis in Professional Practice 3 hours

3rd BSN Clinical Course

(1 hour seminar, 6 hours clinical per week)

Prerequisite: NURS 4410; Co-requisite: NURS 4520; RN licensure. This course focuses on the clinical application of the principles of professional nursing practice. Students will enact the five roles of the professional nurse with emphasis on the incorporation of caring behaviors and ethical decision-making. The purpose of the course is to assist students to identify their current level of nursing skill acquisition and facilitate their development of expertise while providing culturally competent care to individuals, families, and communities.

COURSES IN PHYSICAL EDUCATION

PHED 1000 Wellness* 3 hours

The study of the assessment and development of total well-being through health-related lifestyle habits. Major topics include physical fitness, body composition, nutrition, cancer prevention, stress management, addictive behavior, smoking cessation, and cardiovascular disease risk reduction.

PHED 1001	Leisure/Stress/Rec. Skills
PHED 1002	Nutrition for Living
PHED 1003	Conditioning
PHED 1004	Swimming/CPR*
PHED 1005	Wrestling
PHED 1006	Volleyball
PHED 1007	Tennis*
PHED 1008	Soccer
PHED 1009	Team Handball
PHED 1010	Fencing
PHED 1011	Tumbling
PHED 1012	Basketball
PHED 1013	Folk and Square Dancing
PHED 1014	Social Dance
PHED 1015	Badminton*
PHED 1016	Softball
PHED 1017	Archery*
PHED 1018	Golf*
PHED 1019	SCUBA Diving*
PHED 1020	Weight Training
PHED 1021	Snow Skiing*
PHED 1022	Water Skiing*
PHED 1023	Fundamentals of Sailing*

PHED 1024	White Water Canoeing/Rafting*
PHED 1025	Casting and Angling*
PHED 1026	Backpacking *
PHED 1027	Yoga
PHED 1028	Body Contouring/Improvement
PHED 1029	Adapted Physical Education
PHED 1030	Intermediate Golf*
PHED 1031	Intermediate Weight Training
PHED 1032	Intermediate Tennis*
PHED 1033	Standard First Aid*
PHED 1034	Self Defense/Rape Crisis Intervention
PHED 1036	Jogging
PHED 1039	Advanced Scuba Diving*
PHED 1040	Adventure Activities*
PHED 1041	Karate*
PHED 1042	Recreational Sports
PHED 1043	Recreational Dance Education
PHED 2004	Lifeguard Training*
PHED 2013	Clogging
PHED 2014	Aerobic Exercise

*May require additional fee.

PHED 2000 Introduction to Health and Physical Education 3 hours

An introduction to the field of studies, research, professions, and practices related to the art and science of human movement. The origins and evolution of the discipline and its subdisciplines are traced, knowledge bases are explored, and career opportunities are surveyed. Inherent to the design of this designated writing intensive course, required of all physical education/teacher certification, physical education/exercise science, and athletic training education majors, is the provision of professional development opportunities across the discipline and within each student's choice of subdisciplines.

PHED 2010 Community First Aid and CPR 1 hour

A course designed to provide the student with the knowledge and skills necessary in an emergency situation to call for help, to keep someone alive, to reduce pain, and to minimize the consequences of injury or sudden illness until medical help arrives.

PHED 2250 Basic Human Anatomy 3 hours

A course designed to augment and develop a student's knowledge and understanding of the basic structures and systems of the human body.

PHED 3012 Weight Training Principles & Techniques 2 hours

Prerequisite: Declared HPE major or permission from the instructor. Weight training is an exercise program in which various forms of resistance are used for the purposes of increasing strength, endurance, flexibility, skill, and power. This

course is designed to teach the student the proper use of various equipment, the muscles being worked, the safety precautions, and the principles of developing and implementing strength and conditioning programs. The National Strength and Conditioning Association's (NSCA) guidelines and competencies are emphasized.

PHED 3014 Lifeguard Training 2 hours

Prerequisite: Declared HPE major or permission from the instructor. A course designed to enhance the Physical Education major's background in aquatic safety. Students will have the opportunity to obtain the American Red Cross Lifeguard Certification via the course.

PHED 3020 Hiking/Backpacking/Camping 1 hour

A course designed to improve the Physical Education major's background in outdoor activities. Included in the course are safety concerns/procedures, equipment, no trace camping policies, cooking techniques, and a practical hiking/camping experience.

PHED 3022 Dance Choreography and Production 1 hour

Whether for creative self expression, a Broadway musical, or a rock video performance, dance choreography involves combining the basic elements of movement. This course provides preservice professionals opportunities to learn, practice, and develop strategies for teaching the principles of composition, performance, and production, both common and unique to a wide variety of dance forms.

PHED 3023 Cardio-Conditioning Principles & Techniques 2 hours

Prerequisite: Declared HPE major or permission from the instructor. This course is designed to develop and master the concepts, skills, and techniques related to designing, teaching, and leading the cardio-conditioning, musculoskeletal, and flexibility elements of a conditioning class.

PHED 3025 Methods for Teaching Early Childhood

Physical Education

2 hours

Prerequisite: Admission to Teacher Education Program, PHED 2000, or permission of instructor. The study of and practicum in the objectives, needs, methods, and materials involved in the design, implementation, and evaluation of developmentally appropriate learning through movement programs for young children (i.e., pre school through grade four).

PHED 3025L Methods for Teaching Early Childhood

Physical Education Lab

1 hour

Prerequisite: Admission to Teacher Education Program. Co-Requirement: PHED 3025. The laboratory component of PHED 3025 is designed to provide preservice physical educators opportunities to engage in course-related field experiences facilitated by inservice physical educators at selected elementary schools.

PHED 3305 Nutrition 2 hours
A course designed to introduce the student to the various components of nutrition and how they are applied to health, wellness, sports, and exercise.

PHED 3330 Coaching Theory 3 hours
The study of the theoretical and practical applications of the following areas concerned in coaching: coaching philosophy, pedagogy, off-season preparation, pre-season planning, relationship with players, sport psychology, and current issues and topics related to coaching.

PHED 3340 Measurement and Evaluation 3 hours
A course designed to examine the basic theories of measurement and evaluation including test selection and administration, analysis, and interpretation of data for various cognitive, affective and psychomotor tests commonly associated with health and physical education.

PHED 3350 Health Promotion 3 hours
Prerequisite: Admittance into Exercise Science or permission from the instructor. This course is designed to focus on the past and present roles of health promotion, the various mediums for health promotion, and successful program planning and implementation. Special emphasis will be placed on design and implementation of health promotion programs for target populations including marketing, needs assessment, formative and summative evaluations, and a formal presentation to the class regarding a project.

PHED 3360 Motor Behavior 3 hours
A study of the development of motor skills from the prenatal state to adulthood and old age. Emphasis is placed on fundamental motor skill development, physiological and psychological influences on skill development, and the maturation impact on skill development throughout life.

PHED 3380 Exercise Testing and Prescription 2 hours
Co-requisite: PHED 3380L: Prerequisite: Admittance to Exercise Science or permission from the instructor. This is a physical education professional preparation course designed to provide the student with an understanding of techniques necessary for exercise test administration, evaluation, and prescription for normal and special populations. Special emphasis will be placed on clinical physiology, testing protocols, the evaluation of results, and designing individual exercise prescriptions based upon their results.

PHED 3380L Exercise Testing and Prescription Laboratory 1 hour
Co-requisite: PHED 3380: Prerequisite: Admittance to Exercise Science or permission from the instructor. A laboratory component of PHED 3380 is designed to provide the student laboratory experiences and exercises to supplement the lecture material of PHED 3380. Special emphasis will be placed on clinical physiology, testing protocols, the evaluation of results, and designing individual exercise prescriptions based upon their results.

PHED 3390 Health Education 3 hours
Prerequisite: Admission to Teacher Education Program. Co-Requisite: Enrollment in EDUC 4000 and PHED 4025. A study of the physical and mental health problems of society as they relate to humans and their confrontations with mental health, alcohol, diseases, drugs, marriage, nutrition, physical fitness, and sex.

PHED 3395 Community and Consumer Health 2 hours
A course designed to study community health histories, current issues, programs, agencies, and resources. The course also explores options in properly reviewing and selecting health-related information, products, and services. Course requirements include a minimum of 10 hours of community service in an approved site.

PHED 3400 Adapted Physical Education 3 hours
Prerequisite: Admission into the Teacher Education Program. A course designed to familiarize the student with those programs having the same goals as standard physical education programs, but in which adjustments are made to accommodate the needs and abilities of exceptional students.

PHED 4010 Methods for Teaching Creative Movement and Dance 3 hours
Prerequisite: Admission to Teacher Education or permission from the instructor. Foundations in the art, craft, and science of teaching creative movement and dance, with particular emphasis on practicums designed to provide physical education/teacher certification majors experiences in teaching, to include but not be limited to the following movement and dance forms from the physical education area of the Georgia Quality Core Curriculum: creative and thematic movement and dance, rhythmic health and skill-related fitness workouts, and folk, square, contra, social, and ballroom dance.

PHED 4025 Methods for Teaching Middle and Secondary School Physical Education 3 hours
Co-Requisite: Enrollment in EDUC 4000 and PHED 3390. A course designed to give the students an overall view of physical education in today's middle and secondary schools, as well as to explore a wide variety of teaching methods and materials used to present program content. Directed observation in the schools is required and micro-teaching situations are utilized.

PHED 4405 Physical Education Administration 3 hours
The study of the administrative process and methodology needed to develop a thorough understanding of desirable standards and program implementation in health and physical education.

PHED 4416 Personal and Contemporary Health Issues 3 hours
A study of the attitudes and standards of the physical, emotional, and behavioral aspects of up-to-date health issues. This is a teacher education course in which the learner becomes familiar with the complex components of sex and AIDS education, mental health, drug use/abuse, health care, consumer health, and future health needs.

PHED 4430 Exercise Leadership 2 hours

Co-requisite: PHED 4430L: Prerequisites: Admittance into Exercise Science, PHED 3350, PHED 3380, and PHED 3380L, or permission of the instructor. This course is designed to develop the necessary leadership qualities and skills expected for leading safe and effective exercise programs for a variety of populations. Emphasis will be placed on personal exercise prescription, group leadership skills, and program planning and design.

PHED 4430L Exercise Leadership Laboratory 1 hour

Co-requisite: PHED 4430: Prerequisites: Admittance to Exercise Science, PHED 3350, PHED 3380, and PHED 3380L, or permission from the instructor. A laboratory component of PHED 4430 is designed to provide the student with practical experiences both in the laboratory and gym to supplement the lecture material of PHED 4430. Special emphasis will be placed on the necessary leadership qualities and skills expected for leading safe and effective exercise programs for a variety of populations. Emphasis will be placed on personal exercise prescription and group leadership skills and techniques.

PHED 4440 Practicum 1 hour

The student is assigned to a specific instructional class or given an assignment within the school or community setting. The purpose of this assignment is to enhance the professional growth of the physical education major.

PHED 4441 Practicum 1 hour

The student is assigned to a specific instructional class or given an assignment within the school or community setting. The purpose of this assignment is to enhance the professional growth of the physical education major.

PHED 4450 Exercise Physiology 3 hours

Prerequisite: BIOL 2250 and BIOL 2251 or permission from the instructor. A lecture course designed to present the concepts and applications of the human body's physiological response to physical activity. Both the acute and chronic responses to exercise are examined.

PHED 4460 Kinesiology 3 hours

Prerequisite: BIOL 2250 and BIOL 2251 or permission from the instructor. A course designed to develop a fundamental understanding of the anatomical, neuromuscular, and kinesiological principles of human movement. The applications of these concepts should enable one to evaluate basic human performance.

PHED 4470 Cardiac Rehabilitation 3 hours

Prerequisites: Admittance into Exercise Science and PHED 4450 or permission from the instructor. A professional preparation course designed to provide the student with an understanding of how exercise has become an integral part of medicine by assisting in the diagnosis and treatment of persons with coronary disease. The course will focus on the pathophysiology of the disease, its detection, medical management, and exercise therapy.

PHED 4480 Biomechanics 3 hours
Prerequisites: Admittance into Exercise Science and PHED 4460 or permission from the instructor. A course designed to provide the student with an understanding of mechanical principles and their applications in the study of human movement in sports. Emphasis will be on the mechanical principles influencing human motion, sport technique, and equipment design.

PHED 4490 Internship: Exercise Science 12 hours
Prerequisites: Admittance into Exercise Science, the Program coordinator's approval, all course work completed, a NGCSU nametag secured, current First Aid and CPR certifications held, professional liability insurance secured, and Field Placement Fee paid. Each student may be required by the internship site supervisor to obtain a physical examination and appropriate immunizations. This is a professional preparation course designed to position students in supervised exercise science settings (e.g., hospital, corporation, school, private business) so that they may gain practical experiences in their chosen fields of study.

PHED 4500 Independent Study 1-3 hours
Practical study and/or experience in the area of the student's major interest under the supervision of a faculty member, as approved by the student's advisor and the department head.

COURSES IN PHILOSOPHY

PHIL 1001 Introduction to Philosophy 3 hours
This course is intended to introduce the beginning student to the major, traditional philosophical questions, both eastern and western, and the methods of philosophical discourse. These questions include the following: What can we know? How do we know that we know? What is truth? What is reality? Is there a God? Does free will exist? What is the right thing to do?

PHIL 1001H Introduction to Philosophy - Honors 3 hours
This course is intended to introduce the beginning student to the major, traditional philosophical questions, both eastern and western, and the methods of philosophical discourse. These questions include the following: What can we know? How do we know that we know? What is truth? What is reality? Is there a God? Does free will exist? What is the right thing to do? As an Honors course, the focus is on the interpretation and evaluation of primary texts.

PHIL 2200 Ethics from a Global Perspective 3 hours
This course is designed to introduce the beginning student to the language and method of philosophical discourse. It covers major, traditional ethical theories in both Western and Non-Western Philosophy. Some of the theories covered may include, but are not limited to, Virtue Ethics, Utilitarianism, Kantian Ethics, Hindu Dharma, Confucian Ethics, Buddhist Ethics, and Islamic Ethics.

PHIL 2200H Ethics from a Global Perspective - Honors 3 hours
This course introduces the beginning student to the major Western and Non-Western ethical theories. In the process, students are introduced to the vocabulary and methods of philosophical thought. Theories are examined in terms of their similarities, differences, and consequences for human conduct.

PHIL 2500 Logic 3 hours
This course introduces the beginning student to both formal symbolic and informal logic. In the process, the course examines the topics of emotive language, definitions, validity, soundness, strength, cogency, as well as informal fallacies, truth tables, and logical proofs.

PHIL 3000 History of Philosophy - Ancient (W) 3 hours
This course covers some of the major Western philosophers beginning with the Pre-Socratics and continuing through the early medieval period. The philosophers and theories covered are considered within the historical context as well as with reference to one another.

PHIL 3001 History of Philosophy - Modern (W) 3 hours
The course examines the historical development of philosophical theories within the Western tradition from the Enlightenment through the Modern period.

PHIL 3003 Chinese Philosophy (W) 3 hours
This course will introduce the student to the rich and intellectually diverse tradition of Chinese philosophy. It covers the philosophies of Confucianism, Daoism, Mohism, Legalism, Chinese Buddhism, and Neo-Confucianism.

PHIL 3400 Metaphysics (W) (O) 3 hours
This course is a philosophical investigation into the ultimate nature of reality. Topics covered include the nature and reality of properties or universals, time, possibility, and substance.

PHIL 3600 Epistemology (W) (O) 3 hours
This course is a philosophical investigation into the nature and sources of knowledge, justification, and rationality.

PHIL 4220 Environmental Ethics (W) 3 hours
This course examines ethical issues with regard to human action in and interaction with the natural world.

PHIL 4300 Philosophy of Religion (W) 3 hours
This course examines central and fundamental religious concepts from a philosophical perspective. Some of the concepts explored include omnipotence, immortality, and evil.

PHIL 4500 Advanced Logic (W) (O) 3 hours
This course studies the syntax and semantics of modern propositional logic and first-order quantification theory. This course will also survey some of the

metamathematical results, including Godel's completeness and incompleteness theorems.

PHIL 4700 Political and Social Philosophy (W) 3 hours

This course explores the major philosophical theories concerning the formation and purpose of government and society. Some of the theories covered include those of Plato, Hobbes, Locke, Nozick, and Rawls.

PHIL 4900 Topics in Philosophy (W) (O) 3 hours

The topic of this course varies depending upon the interests of the instructor and students and is designed to allow for the philosophical pursuit of topics not otherwise covered in standing courses.

COURSES IN PHYSICS

PHYS 1111 Introductory Physics I 3 hours

Prerequisite: Math 1113 or permission of instructor. The introductory physics sequence (PHYS 1111 and PHYS 1112) is a survey of the primary fields of physics: mechanics, electromagnetism, optics, thermodynamics, and modern physics. Elementary algebra and trigonometry will be used in the course. The first course of the sequence will focus on the field of classical mechanics and its applications.

PHYS 1111L Introductory Physics Laboratory I 1 hour

Corequisite: PHYS 1111. The laboratory work is designed to clarify physical concepts and to develop skills in making precise measurements and in the manipulation of apparatus. One 2-hour laboratory per week.

PHYS 1112 Introductory Physics II 3 hours

Prerequisite: Physics 1111. The introductory physics sequence (PHYS 1111 and PHYS 1112) is a survey of the primary fields of physics: mechanics, electromagnetism, optics, thermodynamics, and modern physics. Elementary algebra and trigonometry will be used in the course. The second course of the sequence will focus on the field of electromagnetism and its applications.

PHYS 1112L Introductory Physics Laboratory II 1 hour

Corequisite: PHYS 1112; prerequisite: PHYS 1111L. Laboratory to accompany PHYS 1112. One 2-hour laboratory per week.

PHYS 2211 Principles of Physics I 3 hours

Prerequisite or corequisite MATH 2450. The Principles of Physics sequence (PHYS 2211 and PHYS 2212) is a survey of the primary fields of physics: mechanics, electromagnetism, optics, thermodynamics, and modern physics. Elementary calculus will be used in the course. The first course of the sequence will focus on the field of classical mechanics and its applications.

PHYS 2211L Principles of Physics Laboratory I 1 hour
Corequisite: PHYS 2211. Laboratory to accompany PHYS 2211. The laboratory work is designed to clarify physical concepts and to develop skills in making precise measurements and in the manipulation of apparatus. One 2-hour laboratory per week.

PHYS 2212 Principles of Physics II 3 hours
Prerequisite: Physics 2211. The Principles of Physics sequence (PHYS 2211 and PHYS 2212) is a survey of the primary fields of physics: mechanics, electromagnetism, optics, thermodynamics, and modern physics. Elementary calculus will be used in the course. The second course of the sequence will focus on the field of electromagnetism and its applications.

PHYS 2212L Principles of Physics Laboratory II 1 hour
Corequisite: PHYS 2212; prerequisite: PHYS 2011L. Laboratory to accompany PHYS 2212. One 2-hour laboratory per week.

PHYS 3000 Science for Elementary School Teachers 2 hours
Prerequisite: Admissions to Teacher Education Program. This course is for teachers of grades P-8. It deals with the everyday aspects of physics, chemistry, and astronomy as they might need to be explained by the elementary teacher. The work will include demonstrations and suitable experiments that can be performed with materials available in the average elementary school and home situation.

PHYS 3310 Modern Physics 3 hours
Prerequisite: PHYS 2212. Relativity, early 20th century physics, quantum mechanics, atomic, statistical, condensed matter, nuclear and particle physics, and astrophysics. Three class periods per week.

PHYS 3310L Modern Physics Laboratory 1 hour
Corequisite: PHYS 3310. Laboratory to accompany PHYS 3310. A selection of modern physics experiments to complement the topics in PHYS 3310. One 2-hour laboratory per week.

PHYS 3111 Mechanics I 3 hours
Prerequisite: Physics 2211. May be taken concurrently with MATH 3000. Topics include kinematics, using vector analysis, dynamics of particles, rotational and planetary motion, the linear harmonic oscillator, studies of energy, momentum and impact, approximation, and perturbation methods. Three class periods per week.

PHYS 3210 Computational Techniques in Physics 3 hours
Prerequisites: MATH 2450 and PHYS 2211. Study of computational techniques applicable to physics. The techniques examined are applied to the solution of problems from various areas of physics. Handouts and software user manuals are provided. Program help files and web references are also used. Three class periods per week.

PHYS 3411 Electricity and Magnetism I 3 hours
Prerequisite: PHYS 2212. Topics include Coulomb and Gauss laws, electric and magnetic fields, energy, potentials, Laplace and Poisson equations, electromagnetic induction, and Maxwell's equations. Three class periods per week.

PHYS 3450 Optics 3 hours
Prerequisite: PHYS 2212. A study of the principles of geometric optics (ray tracing, the properties of lenses and reflectors) and physical optics (coherence, interference, diffraction, polarization, and the wave equation). Three class periods per week.

PHYS 3610 Thermal Physics 3 hours
Prerequisite: PHYS 2212. A unified approach to thermodynamics and statistical mechanics with applications. Three class periods per week.

PHYS 3710 Introduction to Electronics 3 hours
Prerequisite: PHYS 1112 or 2212. A study of the elementary principles of electronics. The laboratory work consists of the study of analog electronic circuits and the use of testing equipment. Two lecture-recitations and one 3-hour laboratory per week.

PHYS 3720 Digital Electronics 3 hours
Prerequisite: PHYS 1112 or 2212 or permission of instructor. An introduction to digital electronics. Topics include number systems, Boolean algebra, logic circuits and gates, combinational logic devices such as flip-flops, registers and memory elements, and the design and implementation in microprocessors and digital systems. Two lecture-recitations and one 3-hour laboratory per week.

PHYS 3730 Computer Interfacing 3 hours
Prerequisite: PHYS 3720. A course which demonstrates some of the possible applications of microcomputing to scientific data acquisition, display, and processing. The students will be provided with hands-on experience with the different types of hardware and interfaces usually found in microcomputer systems. Two class periods and one 2-hour laboratory per week.

PHYS 4011L, 4012L Advanced Physics Laboratory I & II (W) 1 hour each
Prerequisite: Physics 3310L. Required of all students majoring in physics. Selected experiments from the various branches of physics, clarifying and expanding the work of the classroom and developing good laboratory techniques, including preparation of formal laboratory reports and the evaluation and the interpretation of experimental data. One 3-hour laboratory per week.

PHYS 4112 Mechanics II 3 hours
Prerequisite: PHYS 3111. Accelerating and rotating coordinate systems, Lagrangian and Hamiltonian dynamics, systems of particles and continuum mechanics, dynamics of rigid bodies, and non-linear and coupled oscillations. Three class periods per week.

- PHYS 4210 Nuclear Physics** 3 hours
Prerequisite: PHYS 3310. A study of the properties of the nucleus, radioactivity, interaction of radiation with matter, the detection of nuclear radiation, nuclear models, and nuclear reactions. Three class periods per week.
- PHYS 4350 Quantum Mechanics** 3 hours
Prerequisites: PHYS 3310 and MATH 3000. Historical approach to quantum mechanics. Experimental basis, uncertainty principle, the Schrodinger equation and applications to simple systems, the hydrogen atom, perturbation theory, symmetry principles, and the interpretation of quantum mechanics. Three class periods per week.
- PHYS 4412 Electricity and Magnetism II** 3 hours
Prerequisite: PHYS 3411. A continuation of Physics 3411 with emphasis on Maxwell's equations, electromagnetic waves and related topics. Three class periods per week.
- PHYS 4910 Introduction to Research Methods** 1 hour
Prerequisite: permission of department head. Course designed to prepare the student for employment as a research assistant or engineer upon completion of the B.S. degree. It will also orient the student toward the research work required for an advanced degree. It will consist of literature searches and laboratory work. It may be related to the research of a departmental faculty member. The students will be required to report their work by oral presentations and written reports. Three hours per week for each hour of credit. May be taken 4 times for a total of 4 credits.
- PHYS 4920 Introduction to Research Methods** 2 hours
May be taken 3 times for a total of 6 credits.
- PHYS 4930 Introduction to Research Methods** 3 hours
May be taken 2 times for a total of 6 credits.
- PHYS 4940 Directed Study** 1 hour
Prerequisite: permission of department head. Directed independent study by advanced students on topics not covered by regular courses. Topics are determined on the basis of faculty interests and availability to direct the study.
- PHYS 4950 Directed Study** 2 hours
- PHYS 4960 Directed Study** 3 hours
- PHYS 4990 Senior Seminar (O)** 1 hour
Prerequisite: Senior standing. A capstone course for all physics majors, taken in the last spring semester before their graduation. Presentation of selected papers by students, faculty members, and outside speakers at weekly departmental seminars. Discussion and analysis of experimental and theoretical studies in physics. Each student will make oral presentations to the seminar. One class period per week.

COURSES IN POLITICAL SCIENCE

POLS 1101 is a prerequisite for all 3000-4000 political science courses.

POLS 1101 American Government 3 hours

This course covers government and politics in the United States, including the philosophical and constitutional foundations; political institutions such as Congress, the presidency, and the courts; the federal system; quasi-governmental and nongovernmental institutions such as political parties, interest groups, and the news media; and civil rights and liberties. Georgia's state government will also be introduced.

POLS 1101H American Government, Honors 3 hours

This course covers government and politics in the United States, including the philosophical and constitutional foundations; political institutions such as Congress, the presidency, and the courts; the federal system; quasi-governmental and nongovernmental institutions such as political parties, interest groups, and the news media; and civil rights and liberties. Georgia's state government will also be introduced. The course incorporates the academic standards maintained by the honors program.

POLS 2101 Introduction to Political Science 3 hours

The purposes of this course are to define the discipline of political science, and to study political systems and their environments, political inputs, governmental structures, governmental authorities and processes and policy outputs and impacts.

POLS 2401 Global Issues 3 hours

An analysis of the basic forces which govern the behavior of nations in their relations with one another. This study of world power conflicts, diplomacy, and international cooperation is designed to acquaint the student with the basic issues and areas of conflict among the nation-states of the contemporary world.

POLS 3105 American Constitutional Law 3 hours

An examination of the development and nature of the American constitutional system through Supreme Court cases defining interrelationships of the executive, judicial, and legislative branches and the relationships of the states to the national government.

POLS 3106 State and Local Government (W) 3 hours

An examination of the organization and functions of the state and its political subdivisions. Wherever possible, the state government of Georgia will be studied for illustrative purposes.

POLS 3122 Political Parties and Elections 3 hours
A study of U.S. political parties, including their development, functions, and significance as democratic institutions and policy making instruments. The election process and voter behavior are also examined.

POLS 3123 The Road to the White House 3 hours
This course covers the presidential selection and election processes, raising several theoretical questions about elections and examining the empirical evidence available to answer those questions. In particular, the issues of campaign finance, media coverage, and candidate selection will be covered.

POLS 3124 The Road to the Congress 3 hours
This course covers congressional elections, exploring theoretical questions about the process and examining the empirical evidence available to answer those questions. The roles of political parties, interest groups, and electoral rules are among the major items examined in the course.

POLS 3201 Introduction to the European Union 3 hours
The purpose of this course is to introduce the European Union (EU) from a multidisciplinary perspective.

POLS 3203 East Asia Political Systems (W) 3 hours
This course is an introduction to the political systems of East Asia. In this course, students will become acquainted with the domestic politics of many states in East Asia.

POLS 3204 International Organization 3 hours
Although the absence of any overarching political authority serves to characterize world politics as anarchical, nation-states and other international actors have increasingly coordinated their actions in world affairs throughout the twentieth century. The study of international organizations is the study of that cooperation.

POLS 3205 International Law 3 hours
Prerequisites: POLS 2401. This course introduces students to the concepts and provisions of international law and their real world applications. Lectures, assigned reading materials, class discussions, legal case briefings and mock trial activities are intended to replicate law school experiences.

POLS 3208 Politics of Latin America 3 hours
Prerequisite: POLS 2401. This is an introductory course that deals with the politics of Latin America. The objectives of this course are to understand contemporary political, economic, and social structures within a historical and theoretical context, and to constitute a basis for informed critical appreciation of the importance of Latin America. We will explore the roots of the major political and economic changes that have swept Latin America during the last century. The course presents a brief historical overview of the region as well as a discussion of current social and economic problems. We will discuss four basic models of Latin American politics (populism, revolution, authoritarianism, and democracy). Particular em-

phasis will be placed on understanding the causes and consequences of cycles of democratic and authoritarian rule.

POLS 3209 Middle Eastern Political Systems 3 hours

Prerequisites: POLS 2401. This course introduces students to the political systems of the greater Middle East. The course will analyze, explore, and compare the social, historical, ideological, technological and governmental forces that have shaped this region of the world. The course will also examine the process of political development in the Middle East and assess its progress, both as a region and country-by-country, toward a meshing of Islamic society with a pluralist political system, a.k.a. democracy.

POLS 3302 Political Socialization and Public Opinion 3 hours

Recommended for students in the secondary education program. A survey of political socialization, the process through which a citizen acquires knowledge, opinions, and behavior about politics and government. The course explains how public opinion develops and evaluates whether public opinion influences public policy.

POLS 3310 American Political Theory (W) 3 hours

An analysis of the ideas underlying government and politics in the United States through a survey of American political thought from colonial times to the present.

POLS 3350 Contemporary Political Problems (W) 3 hours

An examination of the major political issues and controversies which are current in domestic and/or world affairs. The course is designed to analyze both the nature of a problem as well as its importance to the political order.

POLS 3505 Model United Nations 3 hours

This course will work in conjunction with a student's participation in the NGCSU Model UN team. In this course, students will be introduced to structures within the United Nations, basics of parliamentary procedure, and how particular countries articulate their viewpoints as delegates to the United Nations. Enrollment in this course is only by permission of instructor.

POLS 3601: Research Methods in the Social Sciences (W, O) 3 hours

Prerequisite: MATH 2400. Cross listed as CRJU 3601. This is an introductory research methods course whose purpose is to familiarize students with the language, important concepts, and processes of social science research. Students will acquire skills for understanding and critiquing research, designing a research project, collecting and coding data, and performing elementary computer data analysis.

POLS 3602: Statistics for the Social Sciences 3 hours

Prerequisite: POLS/CRJU 3601 or SOCI 3020. Cross listed as CRJU 3602. The purpose of this course is to provide an intuitive and computational orientation to the typical statistics that social science professionals encounter. This course presents the foundations of descriptive and inferential statistics, with a concentration on

those specific procedures likely to be utilized by practicing social scientists (e.g., causal models), and a brief overview of multivariate techniques likely to be found in social science publications and research reports. Students will acquire skills for performing both elementary and advanced (computerized) statistical analysis, as well as interpreting and presenting statistical results.

POLS 4104 Public Administration 3 hours
An analysis of the theory, basic principles, and practices of public administration in the United States through a study of organization, management, budgeting, personnel, administrative leadership, and characteristics of modern bureaucracies.

POLS 4110 Congress (W) 3 hours
This course covers the United States Congress as an institution and explores its evolution and its place in the political process.

POLS 4111 American Presidency (W) 3 hours
An analysis of the role and function of the American presidency, from both a historical and analytical perspective.

POLS 4112 Judicial Processes 3 hours
Cross-listed as CRJU 4412. A systematic study of the judicial system and its role in the administration of justice.

POLS 4113 The Legislative Process (W) 3 hours
This course examines the formulation and implementation of legislation and how the structure and dynamics of political institutions affect it. The focus is on how executives and legislatures cooperate and conflict in shaping policy.

POLS 4120 Civil Liberties 3 hours
Cross listed as CRJU 4120. An analysis of the case law surrounding the constitutional guarantees of the personal and social freedoms derived from the Bill of Rights and the Fourteenth Amendment.

POLS 4150 Law & Society 3 hours
Cross-listed as CRJU 4150. The basic concepts and origins of the law are applied to contemporary legal issues, such as capital punishment, minority issues, crimes without victims, and the law as a weapon of social control.

POLS 4151 Legal Research and Moot Court 3 hours
An introduction to legal research, analysis, and writing. The course will culminate with a simulated courtroom exercise.

POLS 4160 Women & Politics 3 hours
This course examines the role of women in politics, focusing on how and to what extent women participate in politics, barriers to women's involvement in politics, and how the political system treats women's issues. Specific topics include the history of the women's-suffrage movement, feminism, the impact of gender on elections and the dynamics of legislatures, and public-policy issues relevant to women.

- POLS 4201 Comparative Government** 3 hours
A study of universal political principles and an application of these principles to the study of political systems on a comparative basis.
- POLS 4202 Comparative Security Issues (W)** 3 hours
This course is designed as an examination of both traditional and non-traditional security concerns. Issues such as military security, environmental security, and resource security will be covered.
- POLS 4203 Korea in the World System (W)** 3 hours
The purpose of this course is to introduce the advanced student of politics to the factors that led the South Korea's adoption of democracy, as well as the post-Cold War foreign policy initiatives of South Korea that were a result of the new-found legitimacy of the democratic government.
- POLS 4204 International Political Economy** 3 hours
This course is an introduction to the major theories of international political economy. International Political Economy (IPE) examines the mix between government involvement in the economy and economic influence in governmental affairs. Historically, the role of government involvement has ranged from complete control over the economy, as in centrally planned economics, to mercantilist states where economic interests drive governmental policy.
- POLS 4205 Eastern European Politics** 3 hours
This course provides a brief history of the entire area, an in-depth study of Eastern Europe's geographical location between the two traditionally ambitious countries of Russia and Germany and its consequences and a study of nationalism and its effects. An examination of the differences between Slavophiles and Westerners in Russian politics, a study of communism, and a look at the disintegration of the Soviet Union.
- POLS 4206 Russian Foreign Policy** 3 hours
This course is designed to enable the student to understand the nature of foreign policy in general and Russian foreign policy in particular. The topic will be taught from the point of view that Soviet foreign policy was a continuation of foreign policy goals of pre-Bolshevik Russia.
- POLS 4207 Politics of Western Europe** 3 hours
A study of the politics and governing institutions of the principal nations in Western Europe, including an examination of the role of the European Union.
- POLS 4208 Politics of Latin American Development** 3 hours
Latin American countries share a common past of colonialism, war, poverty, authoritarianism, political instability and foreign intervention. They differ, however, in the way they have tried to deal with this legacy. Although more attention will be dedicated to understanding their collective experiences since 1945, this course examines the struggle for political and economic development from the time they became independent to the present.

POLS 4209 International Relations of the Middle East 3 hours
Prerequisites: POLS 2401. This course investigates the international relationships between the states of the Middle East as well as the global and regional powers that influence day-to-day relations among them. This course uses weekly readings, daily discussion, a course paper and a presentation to explore how theory, history and current foreign policy among major players determine its international relations.

POLS 4210 Politics of Development 3 hours
This course explores the political, economic, and social challenges of Third World development. It covers a wide range of contemporary issues affecting developing countries, and focuses especially on policies aimed at reducing poverty and underdevelopment. In a world where 840 million people are malnourished, where nearly 1.3 billion people live on less than a dollar per day, and where dozens of countries constitute “failed states,” the development challenges faced by the Third World are unquestionably one of the most important concerns of our time. The course is divided into four parts. In the first section of the course, we will consider critically some of the concepts and major theories used to study Third World development. In the second section, we will analyze the evolution of the nation-state in the Third World and significant political developments. In the third section, we will discuss some of the most important policy decisions affecting these countries. The final section of the course will focus on common contemporary issues.

POLS 4211 European Security 3 hours
Prerequisites: POLS 2401. This course examines the environment and emerging security structures within Europe. It analyzes the changing nature of the European security environment since the creation of NATO, the fall of the Soviet Union, and the development of a separate EU structure. This course will also review the institutional structures along with the internal and external influences which drive European security issues.

POLS 4212 Political Economy of the Middle East 3 hours
Prerequisites: POLS 2401. This course introduces students to the economic systems of the greater Middle East. Rich in oil and gas and yet poorly endowed with water and many necessary foodstuffs, the region faces unique challenges. While this wealth of natural energy reserves should provide ample opportunity for economic development, the reality of its absence forces students of the region to investigate the political decisions behind the economics. The course will investigate the paths of development chosen by the region as well as the political motives, leadership, and influential contextual factors behind such decisions.

POLS 4220 Spies and Statecraft 3 hours
Cross listed as CRJU 4220. A study of the organization of the U.S. Intelligence Community and selected other national intelligence services, including those of the People's Republic of China, Russia, and Israel.

POLS 4302 Twentieth Century Political Theory 3 hours
An analysis of modern political thought with an emphasis upon the doctrines of nationalism, national socialism, communism, and capitalism.

POLS 4310 Political Leadership (W) 3 hours
The course will focus on a variety of historical and contemporary figures to determine how their leadership styles and ideas on leadership have influenced and motivated both individuals and groups of people in the political sense. Assignments and discussion will center on what strategies, motivations, tactics, and actions constitute an effective political leader.

POLS 4320 International Relations Theory 3 hours
The purpose of this course is to introduce the political science student to foundational theories of International Relations. Viewpoints of acceptable behavior and the nature of man have evolved continually in the field of international relations. We will examine this evolution as well as the role of the state as the continuing foundation of world politics.

POLS 4330 Public Policy 3 hours
An analysis of major policy decisions and the impact of these decisions on the American political system.

POLS 4390 Ethics in Government 3 hours
The nature of politics that necessitates coalition-building, bargaining, and compromise seems to train political actors to skirt ethical issues, often spilling over into acts of self-aggrandizing behavior and breaches of public trust. This course will present philosophies, models, and analytical approaches to ethics that will help future politicians and public servants to identify ethical problems, to address them methodically and avoid scandalous incidents, and to provide sound forms of public service.

POLS 4444 Terrorism and Political Violence 3 hours
An examination of the evolution of terrorism and political violence with emphasis on the new dimensions of terrorism and the risks to U.S. national security interests. Topics covered will include weapons of mass destruction, information-based terrorism, homeland defense, and terrorism as a transnational phenomenon.

POLS 4460 International Affairs Capstone Seminar (W) 3 hours
This course is a culminating experience whose goal is to link together previous coursework in International Affairs, study abroad, thesis and internship experiences. This course will focus blend experiential learning and reintegrate those experiences back to their theoretical basis.

POLS 4470 Senior Seminar in Political Science (W) (O) 3 hours
This course is a capstone experience for political science majors. The course provides an analytic survey of the subfields within the discipline and involves intensive reading, research, and writing on the part of students.

POLS 4480 Independent Study in Political Science 3 hours
A supervised research project under the guidance of a member of the political science faculty. The topic will be selected with approval of the instructor. The purpose of the course is to enable students the opportunity either to pursue more detailed study of the content of a prior course or to analyze a topic not currently covered in the political science curriculum.

POLS 4485a Internship in Political Science 3 hours
Prerequisite: Permission of instructor. 3 hours of internship can be used toward fulfilling the major requirement in Political Science.

POLS 4485b Internship in Political Science 6 hours
Prerequisite: Permission of instructor. 3 hours of internship can be used toward fulfilling the major requirement in Political Science.

POLS 4485c Internship in Political Science 9 hours
Prerequisite: Permission of instructor. 3 hours of internship can be used toward fulfilling the major requirement in Political Science.

POLS 4490 Studies of the European Union 3 hours
The purpose of the course is to provide an in-depth analysis on a selected aspect of the European Union (EU). Prior approval of the instructor is required. The course may be taken on multiple occasions so long as the instructor verifies that the topic is not being repeated.

POLS 4590 Special Topics in Political Science 3 hours
The topic of this course will vary depending on timeliness and on instructor and student interest.

POLS 4950 Special Topics: EU-US Relations 3 hours
The topic of this course will vary depending on timeliness and on instructor and student interest.

COURSES IN PSYCHOLOGY

PSYC 1001 Foundations of Leadership (Area B required course) 1 hour
Prerequisite: None. This foundation course is intended to introduce all students to the theories and principles of leadership. PSYC 1001 contains material that is essential for preparing students to utilize theory in their coursework, chosen majors and further leadership opportunities at NGCSU. Students will study basic leadership theory, ethics, values, power, culture, and teambuilding needed to be a leader. This course consists of weekly classroom discussion time with tests and assignments completed via WebCT/Vista.

PSYC 1030 Leadership 2 hours
Prerequisite: None. An introduction to the dynamics and characteristics of leadership, influence, and power will be analyzed from theoretical and applied approaches. Students will be required to examine their own thoughts and reactions to the diversity of models presented.

PSYC 1101 Introduction to General Psychology 3 hours
Prerequisite: None. A broad study of the major topics in psychology including but not limited to research methodology, the brain, biological, and social factors influencing behavior, development, learning, memory, personality, abnormal behavior, therapy, and gender and cultural variables.

PSYC 1101H Honors Introduction to Psychology 3 hours
A broad study of the major topics in psychology including but not limited to research methodology, the brain, biological, and social factors influencing behavior, development, learning, memory, personality, abnormal behavior, therapy, and gender and cultural variables. Acceptance into the NGCSU Honors Program or permission of instructor is required.

PSYC 1102 Advanced General Psychology 3 hours
Prerequisite: PSYC 1101. An overview of history, perception, sensation, complex learning, the nervous system (with particular emphasis on the brain and behavior), and genetics.

PSYC 2103 Introduction to Human Growth and Development 3 hours
Prerequisite: PSYC 1101. An introductory based examination of human development across the lifespan with an emphasis on normal patterns of physical, cognitive, and social development.

PSYC 3070 Statistics for the Behavioral Sciences 4 hours
Prerequisites: PSYC 1101, MATH 2400. A survey of the statistics which are the most frequently used in the behavioral sciences. Particular emphasis will be placed on analysis of variance techniques; non-parametric techniques will also be covered. Primary concern will be with computation, interpretation, and application. Laboratory time will be spent computing, interpreting and applying statistical procedures using a statistical software package.

PSYC 3080 Research Methods for the Behavioral Sciences (W) 4 hours
Prerequisites: PSYC 1101, MATH 2400, PSYC 3070. A course designed to introduce students to experimental methods applied to the behavioral sciences. Basic statistics, analysis, and experimental design will be presented. Laboratory time will be spent designing, implementing, and analyzing research projects with an emphasis on iterative scientific writing.

PSYC 3090 History and Systems of Psychology (W) 3 hours
Prerequisite: PSYC 1101. An integrative course emphasizing the origins and background of the science of behavior. Important contributors and their schools of thought will be studied and related to the present systematic developments.

PSYC 3150 Social Psychology 3 hours
Prerequisite: PSYC 1101. A survey of the impact of the social environment on human behavior. The course includes the following topics: aggression, altruism, attitude change, audience effects, conformity, group dynamics, interpersonal attraction, leadership, sex roles, and social perception.

PSYC 3150L Social Psychology Lab 1 hour
Prerequisite: PSYC 1101, PSYC 3080. To enhance the understanding of the concepts and techniques of research design and analysis through practical application. Students will conduct an original research study in social psychology and submit a final paper in the form of a brief journal report. Lab time will be spent studying existing literature on a social psychological topic of choice, designing a study, assembling materials, collecting and analyzing data, and drafting a research paper.

PSYC 3181/5181 Psychology of Aging 3 hours
Prerequisites: None. This course is designed as part of a distance learning curriculum, and its purpose is to provide an introduction and overview of research findings in the psychology of aging. Lectures are designed to provide a general overview of the domain of psychology and aging with an emphasis on critical evaluation of research.

PSYC 3310 Learning and Cognition 3 hours
Prerequisite: PSYC 1101. Empirical, theoretical, and applied topics in classical, operant, and observational learning are presented in conjunction with current cognitive research including perception, attention, memory, thinking, and language development.

PSYC 3310L Learning and Cognition Lab 1 hour
Prerequisite: PSYC 1101, PSYC 3080. To enhance the understanding of hypothetical constructs and experimental techniques through lab simulations of classic techniques. In addition, students will conduct an original research study in cognition and submit a final paper.

PSYC 3400 Sport Psychology 3 hours
Prerequisite: PSYC 1101. A study of the application of psychological principles to athletes and athletics. Emphasis is on enhancing performance of individuals and teams, as well as developing an understanding of the role of personal and social factors in sports.

PSYC 3430 Theories of Personality (W) 3 hours
Prerequisite: PSYC 1101. A survey and evaluation of the major theories of personality development and related research and applications.

PSYC 3520 Human Sexuality 3 hours
Prerequisite: PSYC 1101. A theoretical, empirical and applied analysis of human sexual behavior. Relying on interdisciplinary sources of research, the course will provide students with a comprehensive understanding of human sexuality.

PSYC 3530 Abnormal Psychology 3 hours
Prerequisite: PSYC 1101. Introduction to the study of the mental disorders as presented in the current version of the Diagnostic and Statistical Manual of Mental Disorders. Current and historical approaches to conceptualization and treatment will be included.

PSYC 3530L Abnormal Psychology Lab 1 hour
Prerequisite: PSYC 1101, PSYC 3080. Uses the Scientific Method to conduct investigations in abnormal psychology. Lab time will be spent preparing for the clinical observations. This will include virtual observations and a brief review and readings of the critical aspects of the disorders covered in the lab. A final paper will be written after students complete research in an area of abnormal psychology.

PSYC 3600 Psychology of Women (W) (O) 3 hours
Prerequisite: PSYC 1101. This course will cover a variety of psychological issues that specifically concern women. Topics will include sexual messages, suffrage, eating disorders, health issues, abortion, domestic violence, rape, motherhood, and social comparisons, among others.

PSYC 4230 Neuroscience (W) 3 hours
Prerequisites: PSYC 1101, 1102, and 8 credit hours from Biology, Chemistry, and/or Physics. A comprehensive study of the biological basis of behavior. Emphasis is given to roles of neural, hormonal, and immunological mechanisms in behavior.

PSYC 4230L Neuroscience Lab 1 hour
Prerequisite: PSYC 1101, PSYC 3080. A hands-on approach to the study of Neuroscience. Topics include neuroanatomy and psychology. Students will perform gross and microscopic anatomy of the brain and other nervous system tissue to demonstrate structure and function relationships from a systems perspective. Students will gain practical experience recording and analyzing human brain activity and bodily responses and relating them to the psychological state.

PSYC 4250 Sensation and Perception (W) 3 hours
Prerequisites: PSYC 1101, 1102, and 8 credit hours from Biology, Chemistry, and/or Physics. A study of traditional and contemporary methods, mechanisms and models of sensation and perception. Emphasis is placed on the organization and interaction of sensory and neural systems for processing information.

PSYC 4650 Group Dynamics 3 hours
Prerequisite: PSYC 1101. The study of the psychology of small group behavior. The topics covered include situational, physical, and personality factors as they relate to group formation, interaction, and performance.

PSYC 4669 Organizational Behavior 3 hours
Prerequisite: PSYC 1101. Cross-listed as MGMT 4669. The study of public and private sector organizations and the role of personality, group dynamics, internal political influences, interpersonal communications, and ethical behavior.

PSYC 4750 Internship in Psychology 3 hours
Prerequisites: PSYC 1101 and junior status. A hands-on experience in psychology in an experimental (research), educational, mental health, counseling, neuropsychological, business, or related settings.

PSYC 4840 Counseling and Clinical Theories and Interventions (W) (O) 3 hours
Prerequisite: PSYC 3530. An introduction to contemporary counseling and clinical treatment models and theoretical approaches. Students will also explore current interventions in context. Current issues, developments, and reactions will be explored in relation to research and application.

PSYC 4900 Senior Psychology Seminar (W) (O) 3 hours
Prerequisites: PSYC 1101 and Senior Status. A capstone course integrating the undergraduate psychology degree program.

PSYC 4950 Independent Study in Psychology 3 hours
Prerequisite: Permission of the instructor. Applied or practical experiences in the area of the student's interest under the supervision and approval of the Department of Psychology. May not be repeated for Majors and Minors.

PSYC 4960 Psychological Reading and Research 3 hours
Prerequisite: Permission of the instructor. Consent of faculty member and agreement on a reading/research topic are required.

PSYC 4970 Senior Honors Thesis 3 hours
Prerequisites: Minimum 3.0 grade point average in psychology and permission of the instructor. The student develops, collects data/information, assimilates information, and then writes the senior thesis presenting the results.

COURSES IN NURSING (ASN)

SCI 1000 Medical Terminology 2 hours
An introduction to the study of basic medical terminology. Prefixes, suffixes, word roots, combining forms, special endings, plural forms, abbreviations, and symbols are included in the content. Emphasis is placed on spelling, definition, usage, and pronunciation.

COURSES IN SOCIOLOGY

- SOCI 1101 Introduction to Sociology** 3 hours
Prerequisite to all other courses. A survey of the discipline of sociology. Topics will include sociological theory, methods, and selected substantive areas.
- SOCI 1160 Introduction to Social Problems** 3 hours
A theoretical and empirical analysis of selected major social problems confronting American society.
- SOCI 2100 Constructions of Difference** 3 hours
This course examines critically the social construction of difference, including race, class, gender and sexuality. These constructions are pivotal and interesting concepts in the analysis of social and economic inequality, laying a foundation for further investigation and insight in advanced sociology courses. The course spotlights social institutions' involvement in the construction process and how the consequences create systems of inequality that privilege few while oppressing many.
- SOCI 2400 Social Theory** 3 hours
This course explores the major theoretical concepts and perspectives in classical social theory. We will examine the origins and development of these perspectives in the nineteenth and twentieth century, emphasizing their application in contemporary social research.
- SOCI 3020 Sociological Research Methods** 3 hours
This course introduces sociology majors to the principles and practices of sociological research. It addresses the logic and practice of research design, including the relationship between theory and research, framing a research question, assessing the methods best suited to answering various questions, measuring concepts, using sampling procedures, data collection strategies, and data analysis.
- SOCI 3050 Race and Ethnicity** 3 hours
An examination of the development and persistence of racial and ethnic cleavages in societies, especially the U.S. Close attention will be given to the historical and economic functions of racism and discrimination, as well as their implications for a pluralistic society.
- SOCI 3081 Survey of Aging** 3 hours
The Seminar in Aging is designed as the first in a set of four gerontology courses taught over GSAMS and is appropriate for both graduate students and upper level undergraduates. The purpose of the course is to provide an introduction and overview of the biology, psychology, and sociology of aging.
- SOCI 3100 Medical Sociology** 3 hours
This course explores the social context of health, illness, and the health care system in the United States. We will examine the social construction of health and illness, the experience of illness, and the effects of social inequality on health.

SOCI 3150 Social Stratification 3 hours
Explores the economic, political, and social basis of stratification and inequality in the U.S. today. Attention is given to the origins and nature of social classes, as well as other social divisions such as occupation, sex, ethnicity, wealth and power.

SOCI 3180 Social Movements and Collective Behavior 3 hours
An analysis of mass movements and collective protest from an historical and behavioral perspective. Emphasis is on understanding social movements as both agents and products of social change and their relationship to various other forms of collective phenomena.

SOCI 3181 Psychology of Aging 3 hours
Psychology of Aging is a distance-learning course taught collaboratively via the Georgia Statewide Academic and Medical System (GSAMS). The course is designed as part of a distance-learning curriculum for upper-level undergraduates and graduate students.

SOCI 3210 Juvenile Delinquency 3 hours
The purpose of this course is to examine the nature, history, measurement, and environmental influences of juvenile delinquency, with particular emphasis on prevention and treatment, and philosophies and practices of the juvenile justice system.

SOCI 3230 Social Change 3 hours
This course examines the theories, directions, mechanisms, patterns, spheres, and impacts of change at various levels of social organization in society.

SOCI 3250 Introduction to Gerontology 3 hours
An interdisciplinary approach to the study of the process of aging.

SOCI 3293 Introduction to Marriage and the Family 3 hours
An introduction to the structure, processes, problems, and adjustments of contemporary marriage and family life.

SOCI 3300 Globalization and Society 3 hours
This course explores how local lives and global trends are increasingly interconnected. Students will examine how globalization makes societies more similar and the world smaller while at the same time creating new conflicts and differences. Attention is given to the political, economic, cultural, and social changes that are restructuring the world.

SOCI 3335 Sociology of Popular Culture 3 hours
This study of popular culture will focus first on extant theories of popular culture and proceed into student research on topics such as books, films, television, music, mass media, popular arts, comics, web-based materials, and possibly much more.

- SOCI 3350 Political Sociology** 3 hours
A sociological analysis of political systems and power and their relationship to social and economic forces. Attention is given to exploring the question of “Who rules America?” and the process involved in maintaining and legitimating political order.
- SOCI 3400/6400 Population & Society** 3 hours
This course is an analysis of the size, composition, and distribution of human populations. Social consequences and policy implications of population dynamics are emphasized for the U.S., selected other countries, and the world.
- SOCI 3410 Environmental Sociology** 3 hours
A comprehensive exploration of the sociological relationships between technology, economic policies, natural resources, population growth, and environmental degradation. Emphasis is on understanding these problems from an ecological perspective and the seriousness of these issues for future survival.
- SOCI 3435 Visual Sociology** 3 hours
Visual sociology employs images of all kind as data for sociological analysis and a basis for theoretical discussions about how visual images shape the human social experience. In this course we will examine images from a variety of sources, including still images, visual art, film, animation, web-based images, and indeed any visual representations of things or events of human interest.
- SOCI 3481/5481 Sociology of Aging** 3 hours
Cross-listed as PSYC 3481. This is a distance learning course taught collaboratively via the Georgia Statewide Academic & Medical System (GSAMS). This course is designed as part of a distance learning curriculum, and its purpose is to provide an introduction and overview of research findings in the psychology of aging.
- SOCI 3500 Occupations / Organizations** 3 hours
An analysis of occupations, professions, and work roles from an organizational perspective. Attention is paid to such topics as occupational inequalities, mobility, and professional ethics, as well as the effect of technology on work and job satisfaction.
- SOCI 3510 Sociology of Religion** 3 hours
This course examines religious theory and comparative religions, investigates contemporary American religions, and explores personal religiosities with sociological insight and imagination. Course readings and fieldwork underscore religion’s role as a pivotal institution that influences and shapes societal discourse.
- SOCI 3520 The Social Construction of Sexuality** 3 hours
A comprehensive review of the history of sexuality, focusing on the moral, legal, economic, political, and cultural arguments that currently condition the organization of sexuality in post-World War II American culture. Using feminist, social construction, postmodern, and sociological perspectives, this course will further

evaluate the contemporary issues and concerns surrounding sexual/gender identity, behavior, and desire.

SOCI 3530 Death / Society / Human Experience 3 hours
Current sociological perspectives on death and the experience of dying are explored with special attention to the psycho-social needs of the terminally ill and their families.

SOCI 3600 Deviance and Social Control 3 hours
A study of the causes and consequences of behaviors labeled problematic and reactions to them on the part of American society.

SOCI 3650 Military Sociology 3 hours
This course will investigate contemporary military institutions using sociological theory, concepts, and methods. The student will look at the changing social organization of the military. The student will also investigate such topics as civil-military relations, military recruitment and socialization, the military as a profession, modern warfare, and the role of the military in various nations.

SOCI 3700 Constructions of Self 3 hours
Thorough theoretical evaluation of self-creation, reviewing the major theories in micro-sociological theory, with particular emphasis on providing students with analytic tools to help them comprehend their own social existence and pursuit of self-creation and happiness.

SOCI 3800 The Sociology of Gender 3 hours
What does it mean to be a "real man" or a "real woman" in the contemporary United States? This course considers issues of gender from a sociological perspective. We will focus on gender socialization, practices, and inequalities in the contemporary United States. Specifically, we will examine the influence of gender in interpersonal relationships, at work, in education, and in other areas of social life.

SOCI 4000 Special Topics in Sociology 3 hours
Intensive directed study in selected topics in Sociology.

SOCI 4050 Sociology of Knowledge 3 hours
This course is concerned with the social organization of knowledge, endeavoring to question the extent and limits of social influences on people's knowledge of the world and their ability to exercise power through knowledge.

SOCI 4100 Advanced Social Theory 3 hours
Prerequisite: SOCI 2400. A survey of the major theoretical concepts of major writers in sociology from Comte to the present.

SOCI 4700 Effective Interviewing 3 hours
A study of basic communication skills and how they may be used effectively in a wide array of situations.

SOCI 4850 Internship in Sociology 3 hours

COURSES IN SPANISH

SPAN 1001 Beginning Spanish

3 hours

Prerequisite: none. An introduction to Hispanic culture and to the fundamentals of hearing, speaking, reading, and writing Spanish. Designed for those who have never studied Spanish before or who need a review. Active classroom use of the language. Language laboratory assignments. Not open to native speakers. Spanish 1002 or higher strongly recommended for highly proficient speakers of Spanish.

SPAN 1002 Elementary Spanish

3 hours

Prerequisite: Spanish 1001, or two years of high school language, or placement. A continuation of Spanish 1001 introducing new vocabulary and basic structures through contextualized, active language use. Further study of Hispanic culture at the elementary level. Language laboratory assignments. Not open to native speakers.

SPAN 2001 Intermediate Spanish I

3 hours

Prerequisite: Spanish 1002 or placement. Spanish 2001 and 2002 are not sequential. Continued skill development in listening, speaking, reading, and writing through the study of culturally-based texts, with focus on reinforcement and acquisition of grammatical structures, active use of vocabulary, and increased knowledge of Hispanic civilization and history. Language laboratory assignments. Class conducted in Spanish. Not open to native speakers.

SPAN 2002 Intermediate Spanish II

3 hours

Prerequisite: Spanish 1002 or placement. Spanish 2001 and 2002 are not sequential. Continued skill development in listening, speaking, reading, and writing through the study of short literary texts, with focus on reinforcement and acquisition of grammatical structures, active use of vocabulary, and refinement of analytical thinking processes. Language laboratory assignments. Class conducted in Spanish. Not open to native speakers.

SPAN 3030 Culture and Civilization of Spain

3 hours

Prerequisite: Spanish 2001 or 2002 or departmental permission. An introduction to the major historical, social, literary and artistic trends and events of Spain. Covers prehistoric through modern day Spain. Class conducted in Spanish.

SPAN 3050 Culture and Civilization of Latin America

3 hours

Prerequisite: Spanish 2001 or 2002 or departmental permission. An introduction to the history, geography, ethnography, politics, economics and culture of Latin America through lecture, reading, film, and discussion. Class conducted in Spanish.

SPAN 3070 Mexican Cultures and Societies

3 hours

Prerequisite: SPAN 2001, 2002, or Departmental permission. Spanish 3070 is a course that examines Mexican cultures by studying their ancient histories and complex societies. This class will attempt to shed light on the reasons for the

lack of understanding that exists between Mexico and the U.S., two neighbors who would benefit greatly by cooperation on all levels. This course will increase student awareness of global interdependence and cultural pluralism. Class conducted in Spanish.

SPAN 3150 Advanced Conversation (O) 3 hours
Prerequisite: Spanish 2001 or 2002 or departmental permission. A course conducted entirely in Spanish to facilitate the development of conversational abilities.

SPAN 3210 Business Spanish 3 hours
Prerequisite: Spanish 2001 or 2002. An introduction to the economic and business practices of the contemporary Hispanic world. Emphasis is placed on language and culture within the Hispanic business world. Class conducted in Spanish.

SPAN 4150 Advanced Composition and Syntax (W) 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission. An advanced study of Spanish grammar with practice in written thematic expression. Class conducted in Spanish.

SPAN 4155 Advanced Language Skills 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission. An advanced language course designed to increase the student's overall mastery of the language. This course utilizes a holistic approach that encourages the balanced development of all skills: listening, speaking, reading, and writing, with sound knowledge of advanced grammatical principles. Class discussion and activities as well as written assignments are based on topics of current interest researched by students, literary selections, film, and the mass media.

SPAN 4160 Spanish Linguistics 3 hours
Prerequisites: Spanish 2001 and 2002. One 3000-4000 level course strongly recommended. This course provides students with a survey of Spanish linguistics. The class studies Spanish pronunciation (phonology), word structure (morphology), history of the language and its status today as a world language, linguistic variation among different dialects of Spanish, language attitudes, Spanish in the U.S., and language in the educational system (bilingualism). Class conducted in Spanish.

SPAN 4170 Spanish Literature of the Golden Age (W) 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission. A study of selections by Spanish writers of the Golden Age by genre and in chronological order beginning with the sonnets of Garcilaso de la Vega and ending with the theatre of Calderón de la Barca. Class conducted in Spanish.

SPAN 4180 Women Writers of Latin-American and Spain 3 hours
Prerequisite: SPAN 2001 and 2002, or departmental permission. A study of selections by Latin-American and/or Spanish women writers. It examines the evolution of their perspectives in the building of the Nation, Progress, Identity, and Gender from modern and contemporary times. All activities, debates, and written assignments encourage the balanced and proficient development of all skills: listening, speaking, reading and writing. Class conducted in Spanish.

SPAN 4190 Modern Spanish Literature (W) 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission.
A study of works by Spanish writers from the early nineteenth century to the present, encompassing Romanticism, Realism, Naturalism, the Generations of 98 and 27, and the post-war and contemporary periods. Class conducted in Spanish.

SPAN 4250 Latin American Literature I: The Pre-Columbian
Period through Naturalism (W) 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission. Introductory survey of Latin American literature from pre-Columbian times to the advent of Modernism around 1885, encompassing Aztec, Mayan, and Inca literature, the Renaissance, the Chronicles, the Baroque, the Enlightenment, Romanticism, Realism, and Naturalism. Class conducted in Spanish.

SPAN 4260 Latin American Literature II: Modernism to the Present (W) 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission. Introductory survey of Latin American literature from around 1885 to the present, encompassing Modernism, Social Realism, the Avant-Garde, the Indigenista and Negrista movements, the “Boom” and Postmodernism. Class conducted in Spanish.

SPAN 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980 Study Abroad 1 - 6 hours each
The study of the Spanish language and Hispanic culture in a native-speaker environment. Designed especially for students in a Study Abroad Program of the University System of Georgia.

SPAN 4990 Special Topics 1, 2, or 3 hours
Prerequisites: Spanish 2001 and 2002, or departmental permission; Spanish 3030 or 3050 recommended. Study of an area of language, literature, or culture not fully covered in other regular courses. Topics vary and are announced in advance. May be repeated for 1, 2, or 3 credit hours for a maximum of six credits if topic is different. Class conducted in Spanish.

COURSES IN SPECIAL EDUCATION

Admission to teacher education is required for enrollment in all of the following courses:

SPED 3100 Characteristics of Students with Mild Disabilities 3 hours
A course designed to address the characteristics of students from diverse backgrounds with mild intellectual, emotional/behavioral, and/or learning disabilities. Legal issues, development of individual education plans, diagnostic and intervention practices, and working with parents are examined in the context of both general education and special education settings.

SPED 4000 Educational Assessment of Exceptional Children and Adolescents 3 hours
A course designed to provide a background of formal and informal evaluative procedures for use with children from diverse backgrounds with learning problems. An in-depth diagnostic evaluation of a school-aged child is required.

SPED 4001 Applied Behavior Management for Students with Mild Disabilities 3 hours
This course addresses the etiology of maladaptive behavior as well as how behavior may be taught, changed, or modified. Basic principles of behaviorist and cognitive theory and their implications within educational settings are covered.

SPED 4002 Transition Planning for Students with Disabilities 3 hours
This course emphasizes the educators role in the preparation for the transition of the students with disabilities from secondary school to adult living. Functional academics, community based instruction, work experiences, vocational assessment and preparation, life skills and interagency collaboration are addressed.

SPED 4200 Educational Interventions for Students with Mild Disabilities 3 hours
This course is designed to provide future teachers with practical applications of research-based curriculum and methodology utilized in the teaching of students from diverse populations with mild disabilities in interrelated and inclusionary classroom settings. Effective planning, lesson implementation, and monitoring of student progress in collaborative situations is addressed. Research-based methodologies including direct instruction and cooperative learning are applied in classroom settings.

SPED 4404 Interventions for Students at the Secondary Level with Mild Disabilities 3 hours
This course is a study and application of effective methods for teaching students in secondary schools from diverse backgrounds with mild/moderate disabilities in general classroom and resource settings. Exhibition of content mastery through teaching demonstrations and production of action research is required.

COURSES IN THEATRE

THEA 1110, 1120, 1130 Production Practicum 1 hour each

Prerequisite: Permission of the instructor. Practical application of theatre skills in the areas of design or performance. Students participating in production practicum must assist in the production or performance of plays with an emphasis placed on learning specific skills associated with various collaborative elements of theatre.

THEA 1150 Acting I 3 hours

An introductory-level acting class introducing Stanislavski-based acting techniques that students will apply through performance presentations. Emphasis will be placed on the development of a goal-oriented, repeatable acting process, stage etiquette, and a general understanding of the fundamental concepts of performance.

THEA 2010 Technical Theatre 1 hour

An introduction to the fundamental principles of stagecraft. Areas of emphasis may include scene, lighting, sound, and costume design and construction. These concepts will be introduced through lecture and applied both inside and outside the classroom through various projects.

THEA 2150 Acting II 3 hours

Prerequisite: THEA 1150 or permission of the instructor. An advanced acting class building on the Stanislavsky-based foundation established in Acting I. Continued emphasis will be placed on the development of a goal-oriented, repeatable acting process. Advanced acting techniques will be introduced through an in-depth study of specific theatrical styles spanning a variety of time periods.

THEA 2500 Theatre Arts Appreciation 3 hours

An introduction to theatre as a collaborative art form. Theatre will be examined from a philosophical and historical perspective with an emphasis placed on theatre history and the development of theatrical production as a collaborative art. The course will also introduce the fundamental concepts of stagecraft, performance, and the cultural relevance of theatre in modern society.

THEA 3150 Fundamentals of Play Directing 3 hours

Prerequisites: THEA 1150, THEA 2010 and THEA 2500, or permission of the instructor. An introduction to the fundamental concepts of play directing with an emphasis placed on script analysis and the development of a directing process that will be utilized in the production of a short play or scenes. This course requires a working knowledge of both acting and the basic principles of stagecraft.

THEA 3500 Theatre History

3 hours

Prerequisite: THEA 2500 or permission of instructor. An advanced study of the history of theatre beginning with ritual performance and continuing to the present day. Emphasis will be placed on the course of theatre throughout history as well as dramatic criticism and thought through the ages.

THEA 4900 Special Topics in Theatre**1-3 hours**

Prerequisites: THEA 1150 and THEA 2500 or permission of the instructor. An advanced study of a specific area of theatre with varying topics based on specific need or interest, such as Shakespeare in performance, Stage Makeup, Stage Combat, or Stage Dialects.

**COURSES IN
FIRST- AND SECOND- YEAR UNIVERSITY EXPERIENCE**

UNIV 1000 Freshman Experience

2 hours

A course designed to assist new students in making a successful transition into college life by teaching academic and personal success skills and by introducing them to university resources. The course consists specifically of three components: academic skills; personal skills; and discussion, research, and critical thinking skills.

UNIV 2001 Career Planning

2 hours

This course will guide students through the career exploration and selection process and provide them the strategies necessary for informed career-related decision making. Students will participate in a variety of activities, including self-assessment, job search preparation, research into prospective majors and career fields, and forming a strategic plan for completing the career management process.