



COURSES OF INSTRUCTION

Sections of courses are listed in alphabetical order,
by the prefix of the academic discipline.

Credit notations on the far right are in the pattern 3-0-3. The first number is the number of lecture hours (or equivalent) each week; the second number is the number of laboratory hours (or equivalent) each week; the third number is the number of semester hours credit. The suffix K designates courses in which a laboratory is included; the suffix L designates a lab course that is separate.

ACCT: ACCOUNTING

ACCT 7200 Accounting Theory and Advanced Financial Reporting Problems 3-0-3
Prerequisite: Undergraduate foundations in accounting. A critical review, analysis, and evaluation of current accounting thought relating to the nature, measurement, and reporting of business income and financial position.

ACCT 7400 Advanced Cost and Managerial Accounting 3-0-3
Prerequisite: Undergraduate foundations in accounting. A study of advanced cost and managerial accounting topics such as the ramifications of variable and fixed costs, activity-based cost and management systems, the theory of constraint, planning and control, and decentralization and performance measurement. The students will learn to analyze accounting data for problem solving and decision making.

ACCT 7510 Corporate Taxation 3-0-3
Prerequisite: Undergraduate foundations in accounting. An examination of the tax aspects of the formation and operation of a business in the corporate form. Limited coverage of the Subchapter-S corporation is included. Case law and research will be heavily utilized to illustrate the compliance and litigation aspects of the corporate entity.

ACCT 7520 Partnership, Estate, and Trust Taxation 3-0-3
Prerequisite: Undergraduate foundations in accounting. An in-depth study of Federal law as it relates to the income taxation of partnerships, limited liability corporations, estates, and trusts. An introduction to the Federal Transfer Tax is also included. Case law and research will be heavily utilized to illustrate the compliance and litigation aspects of these entities.

ACCT 7810 Advanced Auditing Problems and Cases 3-0-3
Prerequisite: Undergraduate foundations in accounting. An in-depth study of audit issues including attestation engagements, statistical auditing, and fraud and forensic accounting. Emphasis will be placed on problem solving and communication skills.

- ACCT 7910 International Accounting and Reporting** 3-0-3
Prerequisite: Undergraduate foundations in accounting. An examination of accounting for international transactions, currency translation methodology, foreign exchange risk management, the accounting systems of international firms, financial planning and control within multinationals, and international auditing and taxation. Students will research accounting practices of multinational companies, accounting principles of foreign countries, and international accounting harmonization efforts.
- ACCT 7990 Directed Study in Accounting** 3-0-3
Prerequisite: Faculty approval. A special project undertaken by the student. The project is guided by a faculty member and culminates in a research project.

ACED: ADULT AND CAREER EDUCATION

- ACED 7000 Foundations and Trends in Business Education** 2-0-2
 An overview of the history and development of the field of business education. Emphasis on the various components of the business education profession; federal and state legislative implications for business education; current trends, issues, and problems in business education; and contributions of various leaders in the field of business education.
- ACED 7020 History and Philosophy of Vocational Education** 3-0-3
 Inquiry into the background, purpose, philosophies, policies, and principles of vocational education. Effects of federal and state legislation. Emphasis is placed on the student's vocational service area.
- ACED 7030 Curriculum in Adult and Vocational Education** 3-0-3
 Principles, procedures, and considerations for developing curriculum in adult and vocational education.
- ACED 7100 Current Practices in Training and Development** 3-0-3
 Introduction to training and development, organizational development, and human resource development. Emphasis on models of program design, needs assessment, costs, and benefits to the sponsoring corporation or agency; and methods of enhancing human performance.
- ACED 7150 Principles of Adult Education** 3-0-3
 Issues relevant to adult education, including history, principles of instruction, barriers to participation, and topics pertaining to the characteristics, interests, abilities, and educational needs of the adult learner.
- ACED 7200 Improvement of Instruction in Keyboarding** 3-0-3
 Development of strategies for teaching keyboarding. Emphasis on course objectives, equipment, materials, skill development, standards, and evaluative criteria.
- ACED 7220 Improvement of Instruction in Computer Technology** 3-0-3
 An analysis of methods, strategies, and problems associated with teaching computer technology courses. Also included are the selection and acquisition of state-of-the-art hardware and software and the design and maintenance of a technology lab in an educational setting.
- ACED 7230 Improvement of Instruction in Accounting and Basic Business Subjects** 3-0-3
 Strategies for teaching accounting and basic business subjects. Emphasis is placed on examining the use of computers in the teaching/learning process; motivation techniques; evaluation tools; and application of research to the instructional process.
- ACED 7240 Improvement of Instruction in Office Education** 3-0-3
 Competencies needed by students preparing for office work are analyzed; teaching methods, course content, and evaluation procedures are discussed.

- ACED 7300 Practicum in Business/Vocational Education** 3-0-3
Prerequisite: Major in appropriate specialization; permission of the advisor must be obtained before registration.
- ACED 7310 Practicum in Business/Vocational Education** 3-0-3
Prerequisite: Major in appropriate specialization; permission of the advisor must be obtained before registration.
- ACED 7400 Computer Technology for the Workplace** 3-0-3
 Introductory, hands-on computer applications for development of workplace skills. Topics include word processing, databases, spreadsheets, communication, and presentation software.
- ACED 7410 New Vocational Teacher Institute** 6-0-6
 Specifically designed for, and limited to, new secondary vocational teachers participating in a summer New Vocational Teacher Institute. Emphasis is on methods of teaching and vocational curriculum development.
- ACED 7420 Advanced New Teacher Institute** 3-0-3
 Follow-up course for participants in ACED 7410 or for experienced secondary vocational teachers. Emphasis is on foundations of vocational education and/or classroom management strategies.
- ACED 7500 Organization and Administration of Vocational Education** 3-0-3
 Organization of vocational education on the local, state, and national levels; federal and state government roles; and types of vocational/technical programs in education and industry.
- ACED 7530 Supervision of Vocational Programs** 3-0-3
 Selection and evaluation of personnel, supervisory techniques, and methods of leadership for leaders in education and industry.
- ACED 7600 Applied Computer Technology** 3-0-3
Prerequisite: ACED 2400/ACED 7400 or consent of instructor. Development of instructional materials for specific teaching areas using the advanced features of word processing, spreadsheets, databases, communication, and presentation software. Designed for in-service teachers and will require the development of practical computer-related projects which can be used in the teachers' respective classrooms.
- ACED 7620 Evaluation of Adult and Vocational Programs** 3-0-3
 Development and understanding of program evaluation methodology for the purpose of school improvement. Emphasis placed on alternative approaches, models, and practical guidelines.
- ACED 7640 Issues and Trends in Adult and Vocational Education** 2-0-2
 Exploration and analysis of recent research and societal developments affecting adult and vocational education. Emphasis is on liability, professional responsibilities, emerging trends, and issues.
- ACED 7680 Improving Instruction in Adult and Vocational Education** 3-0-3
 Theory and practical application of various delivery techniques, principles of teaching and learning, and the development of instructional materials.
- ACED 7740 Educators and Industry** 3-0-3
 Designed to increase career awareness among educators, students, business and industry, and the community. Interaction among educators, business and industry, and community leaders concerning how to meet the needs of local industry.
- ACED 7850 Vocational Education Internship** 0-0-3
Prerequisite: Permission from instructor.
- ACED 7900 Special Topics In Adult and Career Education** 3-0-3
Prerequisite: Permission from instructor. Designed for persons interested in exploring topics specific to vocational education. Emphasis given to examining vocational education research as applied to the educational and/or business activity sector.

- ACED 7950 Directed Study in Adult and Career Education** 1-0-1 to 3-0-3
Prerequisite: Consent of the department head. An opportunity for intensive individual study on an approved topic.
- ACED 7990 Evaluation and Analysis of Research in Business Education** 3-0-3
 Develop and enhance students' ability to analyze relevant research in business education. Emphasis placed on research methodology, research findings, and implementations and implications for business education.
- ACED 8000 Office Technology** 3-0-3
 Development of state-of-the-art office technology skills.
- ACED 8100 School-To-Work Implementation** 3-0-3
 Designed to provide information of the roles of schools and industry in the school-to-work programs and to introduce the skills necessary for the implementation of a seamless educational curriculum model.
- ACED 8120 Policy Issues in Adult and Vocational Education** 3-0-3
 Provides students with a functional understanding of the political, social, economic, ideological, cultural, and technical issues and influences that contribute to policy formation in the fields of adult and vocational education. Emphasis is placed on a conceptual framework for comprehensive educational policy and planning in the fields of adult and vocational education.
- ACED 8150 Cooperative Work Experience** 3-0-3
 Designed to give the sixth-year student a summer's internship in business or industry which will be beneficial in planning curricula and in teaching. Student will secure the position and have it approved by the coordinator. A research problem, approved by the employer and supervising faculty member, will be completed by the student.
- ACED 8250 Individualizing Instruction in Adult and Vocational Education** 3-0-3
 Study of techniques in individualizing instruction, material preparation, and assessment/evaluation. Emphasis is placed on identifying and accommodating the diverse needs of students and programs.
- ACED 8310 Communication Theory** 3-0-3
 Focus on the development of communication theory. An examination of organizational culture, perception and communication, interpersonal patterns, communication barriers, and nonverbal communication.
- ACED 8350 Administrative Support Systems** 3-0-3
 Focus will be on the examination of new technology utilized in the business environment. Topics include the improvement of productivity through technology and systems, ergonomics issues, ethics, and trends.
- ACED 8450 Multimedia Authoring and Design** 3-0-3
 Provides skills in designing and authoring multimedia courseware for education and training environments. Emphasis placed on using multimedia authoring and presentation software to design dynamic materials for individualized and group instruction.
- ACED 8530 Instructional Supervision in Vocational Education** 3-0-3
 Provides information and experiences for the development of skills related to supervision of instruction in the vocational classroom and laboratory.
- ACED 8900 Seminar in Business Education** 3-0-3
 Study of current problems in business education.
- ACED 8995 Practicum in Business/Vocational Education** 3-0-3
Prerequisite: Consent of the department head; to be taken at or near the end of the Ed.S. coursework.

- ACED 9400 Adult Learning Strategies** 3-0-3
Design, development, and implementation of adult learning programs. Particular emphasis will be placed on curriculum models, goals, organization, methodology, career development, and evaluation for adult learners and learning programs.
- ACED 9410 Students With Special Needs in Adult and Vocational Education** 3-0-3
Focus on the integration of instructional and/or management activities in assisting students with special needs in adult and vocational programs. Emphasis will be placed on regulations, interagency activities, curriculum, transition, assessment, and instruction of learners.
- ACED 9420 Issues in Adult and Vocational Education** 3-0-3
Emphasis on topics relating to adult and vocational education which are considered to be especially significant to the field because of current research, developments, and legislation.
- ACED 9430 Leadership in Adult and Vocational Education** 3-0-3
Exploration of theory and development of leadership in adult and vocational education settings. Emphasis will be placed on identifying effective leadership characteristics, expanding leadership skills, and developing a philosophy of effective leadership.
- ACED 9440 Seminar in Adult and Vocational Education** 3-0-3
Designed for exploring topics specific to adult and vocational education in industry and/or educational settings. Emphasis given to examining research as applied in the public and private sectors.
- ACED 9999 Dissertation in Adult and Vocational Education** 3-0-3

ARED: ART EDUCATION

- ARED 6150 Stimulating Creative Behavior** 3-0-3
The study of theories of creativity, visual thinking, creative problem finding and problem solving strategies, identifying external and internal blocks to creativity, testing for creativity, the relationships between creativity, cognition, and visual thinking, and creative thinking challenges and stimuli. An emphasis is placed on methods to elicit creative behavior.
- ARED 6900 Special Topics in Art and Art Education** 1-0-1 to 3-0-3
A special course designed to fit a special need in the curriculum. May be used for a study abroad course or for inter-sessions as is appropriate. May be repeated for up to six graduate hours.
- ARED 6950 Workshop in Art Education** 0-2-1 to 0-6-3
An intensive summer or inter-session course designed to serve a special need for instructional methods or curricular design in art education contexts.
- ARED 7150 Research Problems In Art Education** 3-0-3
Prerequisites: RSCH 7100 and ARED 7500. Analysis of selected studies in the field of Art Education. Students will prepare a research proposal.
- ARED 7450 Art Education Curricula** 3-0-3
Prerequisite: Art Education major or permission of the department head. The study of art curricula, philosophies, rationales, purposes and goals in American schools, K-12. Field applications and observations are required.
- ARED 7500 Issues And Trends In Art Education** 3-0-3
The study of selected issues and current trends in the field of Art Education. A research paper and /or project and field applications are required.
- ARED 7670 Aesthetic Inquiry And Art Criticism** 3-0-3
Prerequisites: Nine semester hours of art history or equivalent background. This course will focus on aesthetics and critical methods for art and Art Education. Field applications of critical methods and/or issues related to aesthetics are required.

- ARED 7900 Directed Study in Art Education** **1-0-1 to 3-0-3**
Prerequisites: Approval of the instructor and department head. Selected individual problems in art education as defined by the student with the approval and guidance of the supervising instructor. May be repeated for credit.
- ARED 7930 Capstone Project** **1-0-1 to 3-0-3**
Prerequisite: RSCH 7100. A capstone course wherein students will develop, with departmental approval, applied research projects based on research findings, curriculum issues, or methodological studies relevant to Art Education contexts. Field applications are required. For students not selecting the thesis option.
- ARED 7950 Art Administrative Internship** **0-2-1 to 0-6-3**
Prerequisites: Master of Art Education students only. Approval of Department Head and Graduate Program Coordinator. A capstone supervised clinical experience within a local, regional, or state art agency, museum, gallery, or approved organizational art facility for the purpose of interning and working with an experienced art administrator. Required for students not seeking certification. May be repeated.
- ARED 7999 Thesis** **1-0-1 to 3-0-3**
Prerequisite: RSCH 7100. A capstone research course resulting in the proposal and preparation of a thesis in APA style. A thesis defense is required. For students not selecting the terminal project option.

ART: ART STUDIO

- ART 6000 Watercolor** 0-6-3
 A course designed for the student who is experienced with aqueous media and has demonstrated success as a self-directed watercolor painter. Students are expected to provide a portfolio for review by the instructor. The student will develop and resolve artistic problems relevant to the media. Works produced will undergo analysis and critical reviews. This course may be repeated for credit.
- ART 6100 Ceramics** 0-6-3
Prerequisite: Three semester hours credit of intermediate ceramics at the undergraduate level or permission of the instructor. This course emphasizes wheel throwing techniques, decorative processes, ceramic materials formulation, and firing strategies.
- ART 6200 Drawing And Composition** 0-6-3
Prerequisite: Three semester hour credits of intermediate drawing at the undergraduate level or permission of the instructor. The study of drawing in various media with an emphasis on individual stylistic development. The production of a thematic portfolio and solo or group exhibition is expected.
- ART 6450 Painting** 0-6-3
Prerequisite: Three semester hour credits of intermediate painting at the undergraduate level or permission of the instructor. This course requires the student, under the guidance of the instructor, to develop individualized problems in painting using a variety of media and techniques. The emphasis is on the development of a personal stylistic approach to painting. A solo or group exhibition is expected.
- ART 6650 Technical Problems in Art** **0-2-1 to 0-6-3**
Prerequisite: Permission of the instructor. A course for advanced students capable of independent research and study in the production of a body of related works in selected media. A problem statement and procedural plan will be developed. A solo or group exhibition is required.

- ART 6950 Workshop in Art** 0-2-1 to 0-6-3
 Selected topics presented in an intensive workshop setting for studio production of art works. Critical reviews and the exhibition of art works produced are expected. May be repeated for credit under different topic headings.
- ART 7070 Electronic Imaging** 0-6-3
Prerequisite: Three semester hours credit at the undergraduate level or permission of the instructor. This course emphasizes the application of computer graphics processes to visual arts problems. Students will demonstrate an understanding of the range of computer graphics applications, a working knowledge of selected graphics software, and will prepare still or animated work for presentation. Specific assignments will be developed in relation to the student's professional goals.
- ART 7900 Directed Study in Art** 0-2-1 to 0-6-3
Prerequisite: Approval of the instructor and Department Head. Individual problems in art selected and defined with approval of the supervising instructor. May be repeated for credit.

ARTH: ART HISTORY

- ARTH 6510 Special Topics in Art History and Criticism** 1-0-1 to 3-0-3
Prerequisite: ART 1100 or equivalent undergraduate art history/appreciation course. A seminar course for the study of special topics or contemporary trends in art, art history, and art criticism. Research, analysis, and short essays will be emphasized. Course may be repeated for credit.
- ARTH 7650 Late Twentieth Century Art** 3-0-3
Prerequisite: nine semester hour credits of art history at the undergraduate or graduate level. This course examines the art and theories of art from 1970 to the present. Students will identify, classify, and place in theoretical context selected works of late twentieth century art. A critical essay and presentation a selected contemporary issue or theory is expected.

ASTR: ASTRONOMY

- ASTR 5101-5102 Principles of Astronomy I, II** 3-2.5-4 each
 A calculus-based course covering astronomical observations, analysis of celestial motions, and a study of the solar system in 5101, and covering the physics of the Sun and stars, stellar evolution, galactic structure and the universe in 5102.
- ASTR 6100 Observational Techniques** 2-2-3
 Aspects of instrumental and observational astronomy including the optics of the telescope, spectroscopy, photography, photometry, electronics, CCDs, astrometrical problems, the operation of the observatory, and mathematical methods of data reduction.
- ASTR 6400 Physics of the Solar System** 3-0-3
 Celestial mechanics; physical features of the Sun, planets, moons, and other material in the solar system.
- ASTR 6410 Astrophysics** 3-0-3
 Radiative transfer in the stellar atmosphere, the interior structure of stars, stellar evolution, physical processes in gaseous nebulae, cosmology.

- ASTR 6800 Internship in Astronomy** 0-6-3 to 0-12-6
Active participation in research in astronomy, or in some field of science closely allied with astronomy, or work with a planetarium or museum which involves planetarium operations and programs. A daily log of activities, a report on the work done, and a research paper relating the work done to the field of astronomy are required.
- ASTR 6900 Special Topics in Astronomy** 1-0-1 to 4-4-6
Topics to be assigned by instructor; may be taken more than once if topics are different; up to a total of 6 credit hours.
- ASTR 6950 Directed Study in Astronomy** 1-0-1 to 4-4-6
Study in area or subject not normally found in established courses offered by the department; may also allow student to explore in more detail and/or depth an area or subject covered by the department in astronomy; up to a maximum of 6 credit hours.

BIOL: BIOLOGY

- BIOL 5000 Biostatistics** 2-4-4
Prerequisite: MATH 1113, BIOL 2230 and BIOL 2270. An introduction to univariate and multivariate analyses of data. Laboratory work will allow students to collect data typical of the diverse disciplines in biology and subject data to appropriate biometrical analyses, using a calculator or computer. Students will be required to keep a detailed lab notebook of the statistical methods studied and also complete a term project and a scientific report. Two 2-hour laboratory periods per week.
- BIOL 5100 Microbiology** 3-3-4
Prerequisite: BIOL 2010, CHEM 1212K. **Recommend CHEM 3402.** Survey of microbiology covering eubacteria, archaeobacteria, protozoa, fungi, algae, and viruses. Includes fundamental techniques, microbial physiology and genetics, biotechnology, medical applications, and applied microbiology. Two 1.5 hour laboratory periods per week.
- BIOL 5200 Genetics** 3-3-4
Prerequisite: MATH 1113, BIOL 2230, BIOL 2270. A survey of modern genetics including: Mendelian and molecular genetics, as well as selected topics in population and quantitative genetics and genetic engineering. Laboratory will emphasize genetic analysis using live *Drosophila* and computer simulated crosses, chi-square analysis of progeny data, and application of these principles to laboratory analysis of genetic variation at the DNA level.
- BIOL 5300 Ecology** 3-3-4
Prerequisite: BIOL 2230, BIOL 2270, CHEM 1212K with a grade of “C” or better. **Corequisite:** BIOL 3200, or consent of instructor. Basic ecological principles including behavior of individuals, populations, and communities in the context of their physical and biotic environments. Reviews population genetics and basic evolution; emphasizes scientific method, including the role of theory, hypothesis testing, statistical analysis and scientific writing. Observation and data collection mostly in the field within a variety of local ecosystems. One weekend field trip required.

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- BIOL 5400 Plant Physiology** 3-3-4
Prerequisite: BIOL 2230, CHEM 1211K. An introduction to basic principles of plant function including physical processes occurring in plants, water relations in whole plants and plant tissues, cell physiology and biochemistry, and growth and development.
- BIOL 5450 Vertebrate Physiology** 3-3-4
Prerequisite: BIOL 2270, CHEM 1212K or permission of Instructor. Study of general physiological processes of vertebrates; emphasis at organ and organ system levels.
- BIOL 5500 Mycology** 3-3-4
Prerequisite: BIOL 2230, **Recommended:** BIOL 3100. Biology of fungi with emphasis on morphology, taxonomy, physiology, and ecology, includes the roles of fungi as both beneficial organisms and as causal agents in plant and animal diseases.
- BIOL 5550 Phycology** 3-4-4
Prerequisite: BIOL 2230. An introduction to the study of the algae, including taxonomy, phylogeny, physiology, and ecology. Laboratories will focus on the examination of live material, and will include methods for the isolation and culture of algae.
- BIOL 5600 Local Flora** 3-3-4
Prerequisite: BIOL 2230. A field-oriented study emphasizing identification, distribution, and ecology of locally occurring seed-bearing plants. Two or three weekend field trips are routinely scheduled.
- BIOL 5650 Taxonomy of Seed Plants** 3-3-4
Prerequisite: BIOL 2230. A survey of the principles of plant taxonomy that includes identification, nomenclature, evolution, and classification of seed-bearing plants. A systematic survey of plant families will be used with emphasis on local representatives.
- BIOL 5800 Invertebrate Zoology** 3-3-4
Prerequisite: BIOL 2270. A study of the morphology, phylogeny, and ecology of invertebrates.
- BIOL 5840 Entomology** 3-3-4
Prerequisite: BIOL 2270. Introduction to the study of insect biology including ecology, behavior, and taxonomy. Laboratory includes field observation, sampling and identification of local fauna.
- BIOL 5870 Parasitology** 3-3-4
Prerequisite: BIOL 2270. A study of the morphology, life cycles, and host-parasite relationships of representative protozoan and metazoan parasites. Human parasites are emphasized.
- BIOL 5900 Ichthyology** 3-3-4
Prerequisite: BIOL 2270. A study of the taxonomy, distribution, ecology, behavior and evolution of freshwater and marine fishes. One or two overnight field trips on weekends will be scheduled, with emphasis placed on the collection and preservation of specimens and the identification of habitats occupied by various species. Other field trips scheduled during normal laboratory periods.
- BIOL 5920 Herpetology** 3-3-4
Prerequisite: BIOL 2270. Introduction to the study of amphibians and reptiles, including anatomy, physiology, ecology, behavior, and classification coordinated with field study of local species.
- BIOL 5950 Ornithology** 3-3-4
Prerequisite: BIOL 2270. Lectures on morphology, evolution, ecology, behavior, and distribution of birds of the world. Lab emphasizes gross anatomy and identification of local species by sight and sound; mostly in the field. Five-day field trip to south Florida required; other Saturday trips offered.

- BIOL 5980 Mammalogy** 3-3-4
Prerequisite: BIOL 2270. Lectures emphasize morphology, evolution, ecology, zoogeography and classification of mammals of the world. Lab emphasizes gross anatomy and identification of mammal specimens, especially those found in North America. Four-day field trip to Blue Ridge Mountains (NC) required; Manatee dive (FL) offered.
- BIOL 6000 Topics in Biology I** 3-0-3
Prerequisite: BIOL 2230, BIOL 2270 or equivalent. Selected topics in the biological sciences. May be repeated if the topic is different. This course does not include a laboratory
- BIOL 6010 Topics in Biology II** 3-3-4
Prerequisite: BIOL 2230, BIOL 2270 or equivalent. Selected topics in the biological sciences. May be repeated if the topic is different. This course includes a laboratory.
- BIOL 6100 Morphology of Land Plants** 3-3-4
Prerequisite: BIOL 2230, BIOL 2270 or equivalent. Study of vegetative organization and reproductive cycles of bryophytes, pteridophytes and seed plants, which incorporates phylogenetic and ecological relationships.
- BIOL 6200 Plant Anatomy** 3-3-4
Prerequisite: BIOL 2230. Origin and development of tissues and organs of vascular plants. The laboratory stresses microtechnique including preparation of plant tissues in paraffin and plastic resins, sectioning, staining for specific components of plant tissues, and use of different optical methods.
- BIOL 6300 Comparative Vertebrate Anatomy** 3-3-4
Prerequisite: BIOL 2270, or with approval of Instructor. Anatomical and phylogenetic survey of representative vertebrate animals.
- BIOL 6350 Vertebrate Embryology** 3-3-4
Prerequisite: BIOL 2270. A study of the fertilization process and embryology of selected vertebrates with the greatest emphasis placed on chick development.
- BIOL 6400 Vertebrate Histology** 3-4-4
Prerequisite: 8 semester hours of senior college biology courses. Study of vertebrate histology with emphasis on the four primary tissues (epithelium, connective, muscle, and nerve). Laboratory work consists primarily of detailed microscopic study and drawings of tissues from prepared slides. Two 2-hour laboratory periods per week.
- BIOL 6500 Cell Biology** 3-3-4
Prerequisite: CHEM 3601 and CHEM 3601L. The organization and function of cellular structures in animal, plant, and microbial systems. Emphasis on the molecular basis of metabolism, transport, mobility, nerve conduction, and the cell cycle.
- BIOL 6510 Virology** 3-0-3
Prerequisite: BIOL 3100 or consent of instructor. An introduction to viruses and other non-cellular infectious agents. Topics include the structure and composition of these agents, their replication, effects on their hosts, and host responses. Methods for studying these agents, their origin and evolution, and their uses in biotechnology will also be discussed.
- BIOL 6550 Immunology** 3-3-4
Prerequisite: BIOL 3100. Basic concepts of immunology, including antigen and antibody structure, the generation of diversity, the nature of T cell and B cell receptors, cellular cooperation, and the down regulation of immune responses.
- BIOL 6580 Molecular Genetics** 3-3-4
Prerequisite: BIOL 3200 The study of the molecular nature of eukaryotic genomes, with emphasis on biotechnology. The lecture will focus on using modern molecular genetic techniques as a means to understand complex eukaryotic genomes. Emphasis will be placed on reading current, relevant scientific literature. The laboratory will involve hands-on experience in which the student will learn the latest technology of molecular genetic analysis and manipulation.

- BIOL 6600 Evolution** 3-0-3
Prerequisite: BIOL 3300. Study of the theoretical aspects and the patterns and processes of micro- and macro-evolutionary change.
- BIOL 6650 Animal Behavior** 3-3-4
Prerequisite: BIOL 2270. Introduction to the major concepts of causation, development, evolution, and ecology of animal behavior, emphasizing the behavior of social animals.
- BIOL 6700 Limnology** 3-3-4
Prerequisite: BIOL 3300. A study of the physical, chemical, and biological aspects of fresh waters.
- BIOL 6950 Directed Study** 0-12-4
Prerequisite: completion of all required upper-division biology courses with distinctly superior academic records and the consent of the instructor. Limited to selected students with approval of instructor and Department Head. A specific problem to include supervised investigation and a report in format of biological journals.

CHEM: CHEMISTRY

- CHEM 5000 Workshop for Teachers** 3-0-3
 A workshop for middle school and high school chemistry teachers, designed to improve subject mastery. Content and level of presentation will be designed to broaden the participants' background in chemistry and will be related to topics taught in middle and high school chemistry classes.
- CHEM 5801 Physical Chemistry I** 3-3-4
Prerequisites: CHEM 3402, MATH 2262, and PHYS 2212K with a grade of "C" or better. A theoretical and mathematical treatment of the fundamental theories and laws of chemistry with an emphasis on thermodynamics. Experimental investigations will supplement the study of phase diagrams, solution calorimetry, bomb calorimetry, thermodynamic modeling and additional solid, liquid, and gas phase energy transfer studies. Permission for graduate credit must be arranged with the instructor prior to enrolling in the course and will involve the completion of a significant project.
- CHEM 5802 Physical Chemistry II** 3-3-4
Prerequisite: CHEM 5801. A theoretical and mathematical treatment of the fundamental theories and laws of chemistry with an emphasis on quantum mechanics, kinetics, and statistical mechanics. Experimental investigations will supplement the study of quantum mechanics, kinetics, and statistical mechanics as applied to systems of interest to chemists. Permission for graduate credit must be arranged with the instructor prior to enrolling in the course and will involve the completion of a significant project.
- CHEM 6420 Physical Organic Chemistry** 3-0-3
Prerequisites: CHEM 3402, CHEM 3802. A study of the methods used to elucidate organic reaction mechanisms. Topics covered include: reaction kinetics, isotope effects; linear free energy relationships; general acid and base catalysis and the acidity functions; reactive intermediates including free radicals, carbenes, carbanions, and carbocations; symmetry controlled reactions; photochemistry. Permission for graduate credit must be arranged with the instructor prior to enrolling in the course and will involve the completion of a significant project.

CHEM 6810 Computational Chemistry 1-3-2
Prerequisites: CHEM 3802 with a grade of “C” or better. Computational and modeling software will be introduced through projects involving systems in physical chemistry and spectroscopy as well as organic chemistry, inorganic chemistry, and biochemistry. Computational predictions will be correlated with laboratory experimental results, either from literature sources or from laboratory work done by the student. Permission for graduate credit must be arranged with the instructor prior to enrolling in the course and will involve the completion of a significant project.

CIED: CURRICULUM AND INSTRUCTION

- CIED 7060 Curriculum, Instruction, and Technology Integration** 3-0-3
An exploration of curriculum issues and trends, curriculum development, integration of technology into the curriculum, implementation of innovative instructional techniques, and legal/ethical issues across content areas and grade levels.
- CIED 7430 Research In Instructional Support** 3-0-3
Prerequisites: MSED 7410 and MSED 7420; or TSS Certification. An advanced study of individual and group problems arising from experiences in supporting preservice teachers.
- CIED 7440 Teaching and Curriculum in Higher Education** 3-0-3
Design, development and implementation of postsecondary instruction, with an emphasis on practical teaching strategies, curriculum and course development, implementation of innovative instructional technologies and integration of technology.
- CIED 9100 Curriculum and Instructional Systems** 3-0-3
Study of concepts, theories, and trends for curriculum, instructional systems, and the change process. Includes a current review of related literature and reflective analysis of practice.
- CIED 9200 Curricular and Instructional Needs Assessment** 3-0-3
Prerequisite: CIED 9100. Assessment of curricular and instructional needs in educational organizations and agencies through a study of relationships among models of learning, learner characteristics, learning environments and society.
- CIED 9300 C & I Needs-Based Proposal Development** 3-0-3
Prerequisite: CIED 9200. Design and development of a proposal for an innovative curriculum and instruction project based on needs.
- CIED 9400 C & I Design and Development** 3-0-3
Prerequisite: CIED 9300. Planning for the implementation and evaluation of a curriculum and instruction innovation in an educational setting. Includes design, development, and evaluation of project materials.
- CIED 9500 Curriculum and Instruction Implementation and Evaluation** 3-0-3
Prerequisite: CIED 9400. Field implementation and evaluation of the innovative curriculum and instruction project
- CIED 9600 Dissertation Topic Conceptualization** 3-0-3
Prerequisite: Completion of major courses and approval of advisor. Seminar for the development of the dissertation topic.
- CIED 9900 Special Topics in Curriculum and Instruction** 1-0-1 to 3-0-3
Advanced Study of specific contemporary issues in curriculum and instruction. Course may be repeated under different topics.
- CIED 9999 Dissertation in Curriculum and Instruction** 3-0-3 to 9-0-9
Prerequisites: Completion of major courses and approval of advisor. Development and defense of the dissertation proposal and the dissertation. May be repeated.

COMD: COMMUNICATION DISORDERS

- COMD 5010 Language Disorders in Young Children** 3-0-3
Prerequisites: Completion of undergraduate CD course sequence. An advanced study of the nature and treatment of language disorders in young children through age 5. Focus is placed on the role of the communication environment and intervention planning and implementation. This course may be taken by non-CD majors with the addition of a lab component.
- COMD 5020 Diagnostics (lab arranged)** 3-1-3
Prerequisites: Completion of undergraduate CD course sequence. An in-depth study of the evaluation and assessment processes for communication disorders. Content encompasses appraisal planning, interviewing, ecological observation, instrumentation, informal and standardized procedures appropriate for determination of eligibility and program planning.
- COMD 5030 Phonological Disorders** 3-0-3
Prerequisites: Completion of undergraduate CD course sequence. Advanced study of assessment and treatment of speech sound disorders. Emphasis placed on motor based as well as cognitive-linguistic based analyses and treatment strategies.
- COMD 5040 Fluency Disorders** 3-0-3
Prerequisites: Completion of undergraduate CD course sequence. Advanced course in differential diagnosis and treatment of stuttering in adults and children. Additional topics include cluttering and stuttering behaviors associated with acquired neuropathies.
- COMD 5050 Beginning Practicum** 1-2-2
Prerequisites: Completion of undergraduate CD course sequence. A supervised experience in a university or community-based setting requiring application of assessment and treatment procedures for individuals primarily with mild to moderate articulation and language disorders. This course will include a weekly seminar on topics related to the profession.
- COMD 5060 Language Disorders of School Age Children** 3-0-3
Prerequisites: COMD 5010. A continuation of the study of language disorders with focus on children from elementary school through adolescence. Topics include advanced language development, school curriculum, impact of communicative and linguistic deficiencies on academic progress, collaborative models of intervention, narratives and discourse analysis. May be taken by non majors with a lab component.
- COMD 5070 Traumatic Brain Injury, Dementia, and Progressive Neurological Disorders** 3-0-3
Prerequisites: COMD 5030. Application of diagnostic and therapeutic principles related to persons with traumatic brain injury, dementia, and progressive neurological disorders.
- COMD 5080 Dysphagia and Motor Speech Disorders** 3-0-3
A study of diagnostic and therapeutic principles related dysphagia and motor speech disorders.
- COMD 5090 Aural Habilitation/Rehabilitation** 0-3-3
The study of hearing habilitation and rehabilitation methods, materials and amplification/assistive devices for tchildren and adults with hearing impairment.
- COMD 5100 Intermediate Practicum** 1-4-3
Prerequisites: COMD 5050 and Grade Point Average of 3.0. A supervised experience in a university, community, or home-based setting requiring application of assessment and treatment procedures to individuals with mild to moderate articulation, language, fluency, voice, and hearing communication disorders. This course will include a weekly seminar on topics related to the profession.

- COMD 5110 Science in Communication Disorders** 3-0-3
Advanced theoretical and applied experimental design and implementation in communication disorders.
- COMD 5120 Aphasia and Other Neurogenic Disorders** 3-0-3
Prerequisites: COMD 5010. A study of the diagnostic and therapeutic principles related to aphasia, TBI, and progressive neurological communication disorders.
- COMD 5130 Oro-Facial/ Syndrome Disorders** 3-0-3
Prerequisites: COMD 5080. Advanced study of communication disorders associated with oral-facial anomalies. Specific emphasis on cleft palate/cleft lip and various syndromes or disorders in which oral-facial anomalies are present.
- COMD 5140 Advanced Practicum** 1-4-3
Prerequisites: COMD 5100 and Grade Point Average of 3.0. A supervised experience in a university, community, or home-based setting with emphasis on test administration, scoring, and interpretation for client services. Treatment of moderate to severe articulation, language, fluency, voice, hearing, and neurogenic communication disorders is emphasized. Weekly student seminars centered on presentations of diagnostic reports/results and proposed intervention strategies are included in this course.
- COMD 5150 Advanced Audiology** 3-0-3
Advanced study of audiometric diagnostic procedures and interpretation. Students will participate in a variety of experiences designed to provide a working knowledge of the audiometric test battery.
- COMD 5160 Voice Disorders** 3-0-3
Prerequisites: COMD 5110, COMD 5020, COMD 5130. A theoretical and applied study of the diagnosis and treatment of vocal disorders.
- COMD 5170 Issues and Trends in Communication Disorders** 2-0-2
Addresses current professional issues in speech-language pathology and audiology which affect service delivery including the code of ethics of the profession addressed in light of changing social, economic and political arenas.
- COMD 5180 Cultural and Dialectical Issues in Communication Disorders** 2-0-2
Prerequisites: COMD 5010, COMD 5060. Seminar on the interrelation of sociological variables and linguistic performance with special emphasis on communication differences and disorders among culturally and linguistically diverse populations.
- COMD 5190 Applied Practicum in the Public School** 0-0-9
Prerequisites: 3.0 GPA, minimum of 100 client contact hours, completion of or concurrent enrollment in all graduate course work and consent of instructor. Supervised practicum consisting of full-time off-campus placement in public schools under the direct supervision of a speech-language pathologist holding the certificate of clinical competence. Students participate in client management, diagnosis, scheduling, staffing, and other activities specific to the setting. May be repeated with instructor's consent.
- COMD 5200 Augmentative/Alternative Communication** 3-0-3
Study of communication options, techniques, and strategies for persons with severe communication disorders resulting from a variety of conditions.
- COMD 5210 Externship in Communication Disorders** 0-0-9
Prerequisites: 3.0 GPA; minimum of 100 client contact hours; completion of all graduate course work; an on-site interview and consent of instructor. Supervised practicum consisting of full-time, off-campus placement in clinical settings such as hospitals, clinics, rehabilitation centers and private practice sites under the direct supervision of a speech-language pathologist holding the certificate of clinical competence. Students participate in supervised client management, diagnosis, staffings, scheduling and other activities specific to the setting.

- COMD 5220 Directed Study in Communication Disorders** 3-0-3
Prerequisites: with prior approval of instructor, advisor and Department Head. This course enables the student to explore in depth a topic relevant to his/her special interest in communication disorders. This course may be repeated.
- COMD 5230 Thesis** 1-0-1 to 3-0-3
Prerequisites: RSCH 7100, COMD 5170. Research project resulting in the completion of a thesis.
- COMD 5450 Auditory and Oral Methods for Teachers** 2-0-2
 This course covers application of diagnostic and therapeutic principles related to the development of oral speech in children with significant loss of auditory acuity.
- COMD 8010 Contemporary Issues and Trends in Communication Disorders** 3-0-3
 A course designed for presentation and discussion of current issues of local, state, and national importance related to the prevention or solution of problems which impact the field of communication disorders.
- COMD 8020 Seminar in Theory and Applied Intervention** 1-0-1
 Seminar presentations regarding in-depth exploration of problems, theories, treatments, and research in specific areas of communication disorders and state of the art interventions based on theoretical conceptualizations. Students will complete 4 one-hour seminars. This course may be repeated for credit when the topic(s) covered is different. Individual topics to be announced with suffix and title.
- COMD 8030 Professional Communication and Collaboration** 3-0-3
 A seminar designed to help the speech-language pathologist organize programs, prepare and administer budgets, supervise professional personnel and physical plant facilities, and provide in-service training.
- COMD 8080 Thesis** 0-0-6
 This course is for the development and defense of the thesis prospectus.

CRJU: CRIMINAL JUSTICE

- CRJU 7000 Seminar in The Criminal Justice System** 3-0-3
 A critical overview of the system as a whole and of its subsystems, with a focus on philosophical underpinnings, policy, and change,
- CRJU 7010 Advanced Comparative Criminal Justice Systems** 3-0-3
 A seminar on crime, law, and criminal justice systems of major legal systems allowing for cross-cultural comparisons
- CRJU 7100 Seminar in Law Enforcement** 3-0-3
 A seminar in which administrative issues pertinent to policing are examined. These include ethics, rural policing, and community policing, among others.
- CRJU 7300 Seminar in Criminal Law And Procedure** 3-0-3
 A seminar in which rapidly changing controversial legal issues which have a major impact on criminal justice are explored.
- CRJU 7411 Applied Statistics for Criminal Justice Research** 3-0-3
Prerequisite: Proficiency in basic statistical methods as demonstrated by undergraduate or graduate course work. A study of advanced statistical techniques applied in criminal justice research.
- CRJU 7412 Advanced Research Methods for Criminal Justice** 3-0-3
Prerequisite: CRJU 7400 or equivalent. A study of advanced research methodology used in criminal justice.

- CRJU 7413 Criminal Justice Planning and Evaluation** 3-0-3
Prerequisites: CRJU 7411 and CRJU 7412. An analysis of criminal justice program development through planned change and techniques or program evaluation, with emphasis on procedure and design.
- CRJU 7500 Seminar in Criminal Behavior and Personality** 3-0-3
 An advanced study of specific criminal behavior types emphasizing violent offenders, sexual deviants, the anti-social personality, and the criminally insane.
- CRJU 7510 Advanced Correctional Therapies** 3-0-3
Prerequisite. CRJU 7500. Study and practice in the development and application of theoretically based correctional treatment plans.
- CRJU 7600 Advanced Criminological Theory** 3-0-3
Prerequisite: Undergraduate or graduate credit for criminological theory or its equivalent as supported by documentation, or permission of the instructor. An intensive overview of each of the major criminological perspectives regarding the etiology of crime.
- CRJU 7610 Seminar in Gang, Group, and Multiple Offender Criminality** 3-0-3
 An intensive study of gang, mob, mass, and other types of group criminality. The course includes an examination of the formulation, evolution, characteristics, and threat of multiple offender violence. Topics include but are not limited to youth gangs, cults, organized crime, mob violence, vigilante groups, and domestic terrorist groups.
- CRJU 7700 Special Topics in Criminal Justice** 3-0-3 to 6-0-6
 A variable topics course that may be taken for 3 to 6 semester hours.
- CRJU 7710 Seminar in Juvenile Justice** 3-0-3
 A seminar on the Juvenile Justice System and major issues related to the administration of juvenile justice. These include administrative issues, legal issues, and issues revolving around theory and rehabilitative goals.
- CRJU 7900 Directed Study In Criminal Justice** 0-3-1 to 0-18-6
May be taken for a maximum of 6 credit hours. Graded “Satisfactory” or “Unsatisfactory.” The study plan must be determined in advance and approved by the Coordinator of the Criminal Justice Graduate Program as well as the instructor of record. Independent study or research under the guidance of a criminal justice graduate faculty member.
- CRJU 7999 Thesis** 0-3-1 to 0-18-6
 The student must be registered for CRJU 7999 in the term in which the degree is earned. For students developing and writing a thesis and as recommended and approved by the student’s thesis advisor. Must be taken for a total of 6 hours.

CS: COMPUTER SCIENCE

- CS 6140 Data Communications and Computer Networks** 3-0-3
Prerequisite: CS 3410. Basic concepts of data communications and computer networks architectures: including OSI and TCP/IP models, packet switching, local area and high speed networks. Error control, routing, and transmission media.
- CS 6321 Software Engineering I** 3-0-3
Prerequisite: CS 3410. Early stages of the software-development process, with emphasis upon analysis and specification. Also, life-cycle definition, software project management, the computer as a system component, and object-oriented approaches. CASE tools will be used as appropriate.

- CS 6322 Software Engineering II** 3-0-3
Prerequisite: CS 3410 (note that CS 4321/6321 is not a prerequisite). The later stages of the software-development process with emphasis upon design, implementation, verification/ validation, and maintenance. Also, human factors, object-oriented techniques, reliability, and quality-assurance issues.
- CS 6330 Theory of Programming Languages** 3-0-3
Prerequisite: CS 3410 or consent of instructor. Formal description of programming languages, standard and advanced features of modern programming languages, complexity.
- CS 6335 Principles of Compiler Design** 3-0-3
Prerequisites: CS 3102 and CS 3410. Introduction to programming language structure, lexical analysis, syntax analysis, code generation, and optimization. A large programming project will be required.
- CS 6340 Systems Programming** 3-0-3
Prerequisite: CS 3410. Implementation of concepts pertaining to the UNIX environment: process control and interprocess communication, job control, file and directory structures, and client/server processes.
- CS 6500 Foundations of Computer Science** 3-0-3
Prerequisites: CS 2620 and CS 3410. The course covers concepts pertaining to regular expressions, finite state machines, regular languages, regular grammars, non regular languages, decidability, context-free grammars, and Turing machines.
- CS 6720 Database Design** 3-0-3
Prerequisite: CS 3410. Examines the logical organization of databases: the entity-relationship model; the hierarchical model, network, and relational models. Hardware characteristics; file organization and evaluation. Functional dependencies and normal forms. Query optimization, concurrency control, and distributed database systems.
- CS 6820 Artificial Intelligence** 3-0-3
Prerequisites: CS 2620 and CS 3410. Definition of artificial intelligence, Common Lisp, logic programming, search techniques, knowledge representation including schemas and scripts, ART-enterprise as an expert system, and principles of expert systems.
- CS 6825 Neural Networks** 3-0-3
Prerequisites: MATH 2150 and MATH 2262. Concepts pertaining to neural networks including: definition of neural intelligence, basic neural computational models, learning: supervised and unsupervised, knowledge bases neural networks, back-propagation neural networks, radial basis neural networks.
- CS 6830 Computer Graphics** 3-0-3
Prerequisites: CS 3410 and MATH 2150. A survey of graphics systems and graphics programming. Topics include output primitives, transformations and viewing, modeling, user interfaces, and interactive methods. Both 2-D and 3-D concepts are discussed.

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ECED: EARLY CHILDHOOD EDUCATION

ECED 5010 Student Teaching – Inclusive ECED 0-20-5

Prerequisites: Consent of the departmental Student Teaching Committee;
Corequisite: ECED 5020. Guided professional experience in an elementary grade (P-5). Student teachers practice teaching and managing a classroom under the supervision of a full-time master teacher and university supervisor in an off-campus setting. The experience includes observations, participation, teaching, and other activities, which make a direct contribution to an achievement of basic concepts, skills, and principles in the teaching-learning process. A minimum of 20 contact hours per week is required in the school for the entire semester.

ECED 5020 Seminar – Inclusive ECED 1-0-1

Prerequisites: Consent of the departmental Student Teaching Committee;
Corequisite: ECED 5010. This seminar is a forum for discussion and exchange of ideas relating to the responsibilities of professional ethical practices. Topics include direct intervention issues, advocacy, collaboration, diversity and any others that arise during student teaching.

ECED 7210 Assessment in Early Childhood Education 3-0-3

A study of the role of assessment in early childhood education. Students examine alternative evaluation strategies for individual developmental and academic assessment of young children. Emphasis is placed on assessment of appropriate curriculum and programs in early childhood education. Computer software to support the assessment strategies will be incorporated.

ECED 7220 Early Childhood Environments 2-2-3

Principles for planning and implementing appropriate programs and learning environments for young children are presented. Program alternatives and models in early childhood education are presented. The integration of computer technology in supporting appropriate programs for young children will be included. Students will plan and implement changes in a classroom environment to address the principles examined in the course.

ECED 7320 Early Childhood Curriculum 3-0-3

Study of basic principles, issues, and considerations of curriculum development in early childhood education. Emphasis will be placed on implications of child development to curriculum and issues, information and suggestions for bridging between curriculum theory and practice. Societal elements and conditions impacting early childhood curriculum, such as diverse populations, community mores and values, multicultural populations, and anti-bias principles, will be explored.

ECED 7330 Issues and Trends in Early Childhood Education 3-0-3

Examination of research, trends, and problems in early childhood education with special reference to professional ethics, professional mentoring, and the etiology of various delivery systems for early childhood education programs. An action research plan relevant to the setting in which the student is employed is initiated.

ECED 7410 The Social Sciences in Early Childhood Education 3-0-3

A study of the influence of the social sciences in early childhood education. The content, curriculum, and implementation of the social studies program are examined. The application of interdisciplinary knowledge from related fields such as sociology, psychology, health services, special education, history, philosophy, and anthropology to social learning is explored. Relevant computer software to support the social science curriculum in early childhood will be included. The student will plan and implement curricular improvement based on theory and practice examined in the course.

- ECED 7411 Integrating the Social Sciences in the Elementary Program** 3-0-3
 An overview of anthropology, economics, history, geography, political science, and sociology. Emphasis on applied research in the social sciences with the goal of developing an in-depth understanding of issues related to the content, higher-level thinking, and inquiry-based learning. Computer software in social sciences will be evaluated and integrated in classroom practice.
- ECED 7412 Global Citizenship Awareness** 3-0-3
 Emphasizes appreciating and understanding the principles of American democracy. The importance of citizenship responsibility in the early grades, developed through meaningful activities that teachers can apply and implement in the classroom, school, community, nation, and the world, is emphasized.
- ECED 7420 Child, Family, and Society** 2-0-2
 Examination of the research and dominant theories of human development and sociocultural development within the context of the family, community, and society. Strategies for collaboration between home and school will be emphasized, and interagency cooperation within the community will be examined in relation to the benefits for young children and their families. The student will investigate a variety of community agencies serving children and families to enhance and apply an understanding of community resources which support the education of young children.
- ECED 7430 Integrating Math, Science, and Technology in Early Childhood Education** 3-0-3
 Explores the integration of curriculum in math, science, and technology. Special emphasis is placed on the utilization of inquiry methods for enhancing children's ability to analyze, to evaluate, and to make inferences from oral, written, and visual materials. Methodology for developing the skills of problem solving, decision making, and critical and creative thinking skills is explored. The use of computer technology to enhance the math, science, and technology curriculum will be included. The student will plan and implement curricular improvement based on theory and practice examined in the course.
- ECED 7431 Theory and Practices in Science Content** 3-0-3
 Theory and practices in science programs with emphasis on the selection of content, concepts and activities, needed equipment, and community resources. Field research experiences include the use of technology, teacher made laboratories, and field trips. Computer software in science will be evaluated and integrated in classroom practice.
- ECED 7432 Life Science Applications** 3-0-3
 Basic life science concepts and strategies of teaching about living things, including the conservation of their environments. Field experiences to include outdoor laboratory activities and field trips.
- ECED 7441 Trends in Elementary Mathematics** 3-0-3
 Study of current recommendations for both content and teaching strategies (e.g., integrating math in all subject areas) for mathematics. Examination of topics receiving increased and decreased emphasis due to technology and other influences. Plans will be made to implement these trends in the classroom. Computer software in mathematics will be evaluated and integrated in classroom practice.
- ECED 7442 Diagnosis and Remediation of Arithmetic Difficulties** 3-0-3
 Investigation of symptoms and underlying causes of impediments in computation. Techniques for analyzing and describing deficiencies, as well as materials and alternative methods for correction. Small group case study required in the field.
- ECED 7530 Seminar in Early Childhood Education** 3-0-3 to 6-0-6
 Concentrated study of contemporary topics relevant to the field of early childhood education.

- ECED 7540 Children, Play, and Development** 3-0-3
Focus on the definitions and the characteristics of play as a basis for understanding cultural and gender differences and similarities in children's play, the multiple stages of play by developmental age, play in special populations, and the relationship of play to intellectual, social, physical, and emotional development. Field based observations and experiences with multiple ages of children as they engage in play is included.
- ECED 7550 The Integrated Early Childhood Curriculum** 3-0-3
In depth investigation of developmentally appropriate ECE integrated curricula which employ a holistic philosophy of ECE. Principles and processes of integrated curriculum development will be examined.
- ECED 8200 Theoretical Models in Early Childhood Education** 3-0-3
Prerequisite: RSCH 8000. An examination of the major theoretical models that influence early childhood education. The contributions to early childhood education of various perspectives will be examined, particularly constructivism, sociolinguistics, and psycholinguistics.
- ECED 8230 Mentoring and Advocacy in Early Childhood Education** 2-0-2
An overview of the knowledge, understandings, and skills necessary to assume mentoring and advocacy roles in various capacities in early childhood education. Emphasis is given to the development of early childhood advocates who establish programs and policy that significantly and positively impact the young children, families, and communities with whom they work. Professional ethics and the development of mentoring strategies are integral parts of this course.
- ECED 8300 Area Studies in ECE Curriculum and Instruction** 3-0-3
A critical analysis of the current status of innovations and trends for curriculum development in various subject fields. Patterns of organization and techniques for curriculum development are examined and evaluated. Recognition is given to the impact of a multidimensional curriculum on planning, teaching, and learning.
- ECED 8330 Design and Evaluation of Quality Programs in ECE** 3-0-3
A study of the issues related to designing and evaluating quality programs in early childhood education. Related research is examined regarding programs and educational environments for children from diverse cultural and socio-economic backgrounds as well as differing ages and developmental levels, including children with special needs.
- ECED 8410 Special Topic: Early Childhood Education Today** 3-0-3
An interdisciplinary approach to the study of the historical, philosophical, sociological, and anthropological perspectives and influences on contemporary early childhood education.
- ECED 8420 Special Topic: International Perspectives in ECE** 3-0-3
Directed readings in international perspectives in early childhood education. Emphasis is placed on the international impact of contemporary early childhood education and research on young children in early childhood settings and programs throughout the world.
- ECED 8998 Applied Research Project** 2-0-2
Supervised development and investigation of a research problem in early childhood education.

Credit notations on the far right are in the pattern 3-0-3. The first number is the number of lecture hours (or equivalent) each week; the second number is the number of laboratory hours (or equivalent) each week; the third number, **in bold**, is the number of semester hours credit.

ENGL:ENGLISH

- ENGL 6000 Graduate Option** 3-0-3
An English Department course, numbered 4000 or above, which may be taken at the graduate level with appropriate adjustments agreed on by the student and the professor.
- ENGL 7000 Approaches to Graduate Study** 3-0-3
An introduction to the fields and methods of research and writing in graduate literary study.
- ENGL 7010 Approaches to Critical Theory** 3-0-3
An introduction to the role and function of literary criticism in the context of literary studies.
- ENGL 7110 Studies in British Literature to 1500** 3-0-3
A focused survey in the area of British literature to 1500, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7120 Studies in British Literature 1500-1660** 3-0-3
A focused survey in the area of British literature from 1500-1660, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7130 Studies in British Literature 1660-1800** 3-0-3
A focused survey in the area of British literature from 1660-1800, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7140 Studies in British Romantic Literature** 3-0-3
A focused survey in the area of Romantic literature, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7145 Studies in Victorian Literature** 3-0-3
A focused survey in the area of Victorian literature, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7150 Studies in Modern and Contemporary British Literature** 3-0-3
A focused survey in the area of modern and contemporary literature, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7210 Studies in American Literature to 1800** 3-0-3
A focused survey in the area of American literature to 1800, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7220 Studies in American Literature 1800-1865** 3-0-3
A focused survey in the area of American literature from 1800 to 1865, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7230 Studies in American Literature 1865-1914** 3-0-3
A focused survey in the area of American literature from 1865 to 1900, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7240 Studies in Modern and Contemporary American Literature** 3-0-3
A focused survey in the area of modern and contemporary American literature, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.
- ENGL 7300 Studies in Special Topics** 3-0-3
A focused survey in a selected topic, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.

ENGL 7320 Studies in Genre	3-0-3
A focused survey in genre studies, with special emphasis on themes, genres, and/or figures. Attention will be given to cultural background and/or critical perspective.	
ENGL 7600 Studies in Rhetoric and Composition	3-0-3
A focused survey in the area of rhetoric and/or composition theory.	
ENGL 8110 Seminar in British Literature to 1500	3-0-3
A seminar in the area of British literature to 1500.	
ENGL 8120 Seminar in British Literature 1500-1660	3-0-3
A seminar in the area of British literature from 1500-1660.	
ENGL 8130 Seminar in British Literature 1660-1800	3-0-3
A seminar in the area of British literature from 1660-1800.	
ENGL 8140 Seminar in British Romantic Literature	3-0-3
A seminar in the area of Romantic literature.	
ENGL 8145 Seminar in Victorian Literature	3-0-3
A seminar in the area of Victorian literature.	
ENGL 8150 Seminar in Modern and Contemporary British Literature	3-0-3
A seminar in the area of modern and contemporary literature.	
ENGL 8210 Seminar in American Literature to 1800	3-0-3
A seminar in the area of American literature to 1800.	
ENGL 8220 Seminar in American Literature 1800-1865	3-0-3
A seminar in the area of American literature from 1800 to 1865.	
ENGL 8230 Seminar in American Literature 1865-1914	3-0-3
A seminar in the area of American literature from 1865 to 1900.	
ENGL 8240 Seminar in Modern and Contemporary American Literature	3-0-3
A seminar in the area of modern and contemporary American literature.	
ENGL 8300 Seminar in Special Topics	3-0-3
A seminar within the area of language and/or literature.	
ENGL 8320 Seminar in Genre	3-0-3
A seminar in genre studies.	
ENGL 8600 Seminar in Rhetoric and Composition	3-0-3
A seminar in the area of rhetoric and/or composition theory.	
ENGL 8690 Workshop in Rhetoric and Composition	<u>1-0-1</u> to <u>6-0-6</u>
This course provides credit for participants in workshops and professional activities sponsored by the English Department.	
ENGL 8700 Directed Study	3-0-3
Research in selected areas of language and literature.	
ENGL 8800 Seminar for Teaching Assistants	1-0-1
A seminar for graduate students currently teaching composition courses.	
ENGL 8999 Thesis	<u>3-0-3</u> to <u>6-0-6</u>
Individualized study and research in preparation for a work of fifty or more pages demonstrating competent and substantial research coupled with an innovative approach to the subject matter. May be repeated for credit.	

FLED: FOREIGN LANGUAGE EDUCATION

FLED 6800 Methods and Materials for Teaching ESOL	3-0-3
Methods of teaching English at both the elementary- school and secondary-school levels to students whose first language is not English. Review of theories of second language acquisition, instructional strategies and materials, methods of evaluating proficiency and progress, curriculum, and professional organizations and resources.	

- FLED 7100 Professional Development Seminar I** 2-0-2
 Through interaction with peers and education professionals, students perform self-assessment, determine areas of skill and knowledge in need of improvement, and design an effective career growth and development plan, as a preliminary step in expanding and modifying their personal teaching strategies.
- FLED 7500 Theory and Practice in Second Language Acquisition** 2-0-2
 Discussion, analysis, and practice of the various theories and models of second-language acquisition.
- FLED 7600 Research and Design** 3-0-3
 Research in foreign language education with emphasis on curricula and curriculum development, current research, and current reform in foreign language education, including national standards, and their application to the design of innovative instructional tools.
- FLED 7800 Professional Development Seminar II** 2-0-2
 A capstone experience requiring students to reflect upon their teaching experiences through interactions with peers, secondary education professionals and other educators in their content area. The preparation and presentation of a portfolio reflecting their student teaching experience is required.

FREN: FRENCH

- FREN 5410 Francophone Literature** 3-0-3
 Selected works of twentieth-century Francophone writers from the French-speaking community outside of France, especially the Caribbean, Africa, and Quebec.
- FREN 5610 Women Writers of Seventeenth-Century France** 3-0-3
 Selected literary works of major women writers of seventeenth-century France.
- FREN 5630 Topics in French Language or Literature** 1-0-1
 Intensive study to improve the student's ability in a particular area of French language or Francophone literature. This course requires independent work of the student and may be repeated with different topics for a total of 3 hours.
- FREN 6400 French Phonetics and Advanced Conversation** 3-0-3
 Study of phonetic principles and their applications.
- FREN 6410 French Composition and Advanced Grammar** 3-0-3
 Advanced study of grammar, practical composition, and refinement of written expression.
- FREN 6420 French Translation: English to French** 3-0-3
 Translation techniques from English to French, including idiomatic expressions and extensive practice in written French.
- FREN 6650 French Literature of the Twentieth Century** 3-0-3
 Selected major literary works of France, from 1901 to the present.
- FREN 6950 Directed Study** 3-0-3
 Study in an area or topic of Francophone literature or the French language not normally found in established courses offered by the department. The work is done under the supervision of a professor.

GEOG:GEOGRAPHY

- GEOG 5050 Introduction to Computer Cartography & Geographic Information Systems.** 2-2-3
An introduction to computer-based map production and spatial data processing. Lectures and laboratory exercises cover data gathering, manipulation, analysis, and display, with an emphasis on cartographic principles such as symbolization, generalization, titling and labeling.
- GEOG 5051 Geographic Information Systems and Remote Sensing** 2-2-3
Survey of GIS hardware and software, spatially referenced database management and querying. The latter part of the course will integrate multispectral satellite imagery into GIS, with an emphasis on data processing and interpretation. Laboratory exercises supplement lecture topics.
- GEOG 5052 Advanced Geographic Information Systems** 2-2-3
Advanced applications of GIS including: overlay analysis, writing short macros for repetitive operations, spatial modeling and technical support of complex land use and natural resource management decision making. Laboratory exercises designed to form a cartographic and software portfolio for students.
- GEOG 5053 Application Issues in Geographic Information Systems** 3-0-3
Operational and planning issues in GIS. Students will learn which issues need to be considered when proposing and implementing a GIS and will have opportunities to evaluate how a GIS can be used to solve specific planning problems.
- GEOG 5100 Regional Planning and Environmental Management** 3-0-3
Introduction to planning for economic development, service provision and resource management at scales larger than municipalities with an emphasis on the environmental impacts of planning policy and regulation.
- GEOG 5150 Meteorology and Climatology** 3-0-3
A detailed examination of atmospheric motions and climatic controls including, the Earth's radiation and energy balance, air mass dynamics, weather systems, and past and present climates of the Earth.
- GEOG 5200 History of Life** 2-3-3
Also listed as GEOL 5200. Principles of paleontology with emphasis on the history of life including vertebrates. Includes an account of the outstanding forms of life from the beginning of earthtime to the present, and those paleontologically significant groups that are uncommon, different, or extinct today.
- GEOG 5210 An Introduction to Hydrology** 3-2-4
Also listed as GEOL 5210. An introduction to surface and subsurface hydrology, examining components of the hydrologic cycle. Topics include local and global water balance, precipitation, interception and infiltration, runoff, stream flow, water storage, and groundwater. This course makes use of some mathematical equations.
- GEOG 5300 An Introduction to Process Geomorphology** 3-2-4
Also listed as GEOL 5300. An introduction to process geomorphology examining landforms and their formative processes. Topics include weathering and slope, fluvial (river), coastal, aeolian (wind), glacial and periglacial processes. This course makes use of some mathematical equations.
- GEOG 5310 Physiography of North America** 3-0-3
The physiographic description, including the landforms, soils, structural framework, climate, plant and animal geography, natural resources, and the unique environmental problems of each major physiographic province of the United States and Canada, including Alaska, Hawaii, and Puerto Rico.

- GEOG 5320 Geomorphology of Fluvial and Coastal Environments** 3-0-3
 An examination of processes and landforms in fluvial (river) and coastal environments. Fluvial topics include channel geometry and pattern, characteristics of flow, sediment load, bedforms, and floodplains. Coastal topics include the study of waves and tides, coastal sediment transport, beaches, and the effects of changing sea level. This course makes use of some mathematical equations.
- GEOG 5410 Cultural Geography** 3-0-3
 A study of the Earth as the home of humankind, emphasizing the spatial and functional complexes of human geography. Topics to be considered are population, settlement form, settling processes, resources, and economic, political, and societal organizations.
- GEOG 5510 Urban Community Planning** 3-0-3
 Principles and applications of planning for neighborhoods, towns and cities with an emphasis on the United States. Topics covered include: public services, land-use decision making, economic development, growth management and the role of non-government organizations.
- GEOG 5610 Economic Geography** 3-0-3
 A study of area variations in human economic activities as related to production exchange, and consumption of economic goods and services. Emphasis is placed on location of economic activities and related theories.
- GEOG 5710 Introduction to Soil Science** 2-2-3
Also listed as GEOL 5710. Examines the nature, formation, properties, and distribution of soil, stressing analysis and use of soils for proper urban, agricultural, and environmental purposes.
- GEOG 5810 Introduction to Biogeography** 3-0-3
 An overview of spatial and temporal patterns in the distributions of plant and animal species across the Earth's surface. Topics covered include ecosystem dynamics, biodiversity, competition and predation, interpreting past life, effects of climate change, and effects of community disturbances.
- GEOG 6700 Field Methods in Environmental Geography** 2-4-4
 Study of field techniques and field problems in physical geography. Course includes classroom presentations, field projects, field trips, and writing technical reports.
- GEOG 6800 Internship in Environmental Geography** 0-6-3 to 0-12-6
 A supervised, practical experience using physical geography skills in an appropriate organization. Provides the student with an opportunity to apply skills learned during pursuit of environmental geography degree to real world situations. (Graded on an S/U basis).
- GEOG 6900 Special Topics in Geography** 1-0-1 to 4-4-6
 Topic to be assigned by instructor; the course may be repeated more than once if the topics are different.
- GEOG 6990 Directed Study in Geography** 1-0-1 to 4-4-6
 Study in area or subject not normally found in established courses offered by the department; may also allow students to explore in more detail and/or depth an area or subject covered by the department.

GEOL: GEOLOGY

- GEOL 5010 Environmental Geology** 2-2-3
 The application of basic geologic principles and techniques to problems in land-use planning, resource management, waste disposal, conservation, energy plant sitings, under-and-above-ground construction, subsidence, construction in seismic areas, slope-stability, urban development and other problems resulting from human interaction with the geological habitat.

- GEOL 5050 Oceanography** 3-0-3
The physical, chemical, geological, and biological characteristics of the ocean and the interactions between the hydrosphere, lithosphere, atmosphere, and biosphere.
- GEOL 5100 Principles of Mineralogy/Petrology** 2-3-3
An introduction to mineral and rock identifications, and the study of the genesis, occurrence, and uses of common minerals and rocks. Laboratory consists of identification of common rocks and minerals.
- GEOL 5101 Mineralogy** 3-3-4
The classification, identification, and crystallography of the principal rock-forming minerals, silicate and non-silicate; and the introduction of the use of the petrographic microscope in the study of the crystallography and identification of minerals.
- GEOL 5102 Petrology and Petrography** 3-3-4
Genesis, classification, and properties of igneous, metamorphic, and sedimentary rocks. Laboratory includes the use of analytical methods, hand specimens, and thin-section study with the petrographic microscope, and the macroscopic and microscopic properties of important rock types.
- GEOL 5200 History of Life** 2-3-3
Also listed as GEOG 5200. Principles of paleontology with emphasis on the history of life including vertebrates. Includes an account of the outstanding forms of life from the beginning of earthtime to the present, and those paleontologically significant groups that are uncommon, different, or extinct today.
- GEOL 5210 An Introduction to Hydrology** 3-2-4
Also listed as GEOG 5210. An introduction to surface and subsurface hydrology, examining components of the hydrologic cycle. Topics include local and global water balance, precipitation, interception and infiltration, runoff, stream flow, water storage, and groundwater. This course makes use of some mathematical equations.
- GEOL 5220 Invertebrate Paleontology** 2-2-3
Identification, classification, and natural history of major groups of invertebrates preserved as fossils in the geologic record, with special attention to those forms commonly encountered in the southeastern United States. Emphasis in laboratory will include taxonomic affinities and functional morphology. Saturday (optional) field trips will be scheduled to local areas of interest.
- GEOL 5230 Vertebrate Paleontology** 2-2-3
Geologic history and evolution of animals with backbones, with coverage of extinct groups such as the Dinosauria.
- GEOL 5250 Micropaleontology** 2-2-3
The classification, stratigraphic relationships, and methods of study of microfossils with emphasis on the stratigraphically important groups.
- GEOL 5300 An Introduction to Process Geomorphology** 3-2-4
Also listed as GEOG 5300. An introduction to process geomorphology examining landforms and their formative processes. Topics include weathering and slope, fluvial (river), coastal, aeolian (wind), glacial and periglacial processes. This course makes use of some mathematical equations.
- GEOL 5410 Structural Geology** 2-2-3
Structural features of the rocks, such as folds, faults, joints, cleavage, and primary structures, including their origin, classification, analyses and economic relationships. A study of tectonic plate motion is included. Laboratory work includes depth and thickness problems, structure sections, and structure contour maps.
- GEOL 5450 Field Methods in Geology** 2-4-4
An introduction to the basic tools and techniques used in preparation of topographic and geologic maps, and profiles and cross-sections. Includes uses of plane table, alidade, brunton compass, and aerial photographs.

- GEOL 5500 Principles of Geochemistry** 3-2-4
The application of chemical principles to study of geological and environmental processes. Course emphasis is on understanding processes that influence the chemistry of water, sediment, and soil. Specific topics include aqueous solutions, thermodynamics, mineral-water equilibria, oxidation-reduction reactions, and radiogenic and stable isotopes. Laboratory component of the course is field-based.
- GEOL 5710 Introduction to Soil Science** 2-2-3
Also listed as GEOG 5710. Examines the nature, formation, properties, and distribution of soil, stressing analysis and use of soils for proper urban, agricultural, and environmental purposes.
- GEOL 6110 Principles of Stratigraphy** 3-0-3
The interrelationships of stratigraphy, sedimentation, and paleogeography; methods in stratigraphy and correlation.
- GEOL 6900 Special Topics in Geology** 1-0-1 to 4-4-6
Topics to be assigned by instructor; may be taken more than once if topics are different; up to a total of 6 credit hours.
- GEOL 6950 Directed Studies in Geology** 1-0-1 to 4-4-6
Study of subjects not normally found in established courses offered by this department; may also allow students to explore in more detail and/or depth subjects covered by this department, up to a maximum of 6 credit hours.

HIST: HISTORY

- HIST 5050/5060/5070/5080/5090 Special Topics in History** 3-0-3 each
Selected themes of historical and contemporary interest.
- HIST 5201 The Ancient Near East** 3-0-3
The history of Ancient Egypt and Mesopotamia, with emphasis on political structures, social institutions, and cultural developments.
- HIST 5205 Europe in the Age of Louis XIV, 1648-1750** 3-0-3
A study of major trends in European history from the Peace of Westphalia to the Enlightenment. Cultural, social, and political achievements of European countries will be stressed.
- HIST 5206 Revolutionary Europe, 1750-1815** 3-0-3
A study of major developments in Europe from the Enlightenment through the defeat of Napoleon. The impact of the French Revolution will be emphasized.
- HIST 5207 Europe, 1815-1914** 3-0-3
A survey of the leading developments of the period in Europe, including social and nationalistic trends. Emphasis is placed on factors leading to World War I.
- HIST 5208 Europe, 1914-1945** 3-0-3
A survey of the lost generation living in a society broken and disillusioned by World War I.
- HIST 5209 Europe Since 1945** 3-0-3
A study of European domestic and international affairs since 1945 with emphasis upon the major states.
- HIST 5301 England to 1603** 3-0-3
The English people from early times to the advent of the Stuarts with emphasis on the growth of political, social, economic, and cultural institutions.
- HIST 5302 England Since 1603** 3-0-3
England and Great Britain in the period of the seventeenth through the twentieth centuries, emphasis being given to social, economic, and imperial development.
- HIST 5303 English Constitutional History** 3-0-3
A study of the development of English judicial and governmental institutions from the Anglo-Saxon period to the present.

- HIST 5401 Czarist Russia to 1917** 3-0-3
Russian history from the founding of the nation until the Revolutions of 1917 and the fall of the Romanov Dynasty.
- HIST 5402 The Soviet Union and Afterward** 3-0-3
A study of Russia's history as part of the Soviet Union, 1917-1989, and following the Soviet Union's breakup.
- HIST 5500 German History, 1700-1945** 3-0-3
An in-depth study of German history from the rise of Brandenburg-Prussia to the fall of Nazi Germany. Topic areas include social, political, intellectual, cultural, diplomatic, and gender history.
- HIST 5502 Topics in German History** 3-0-3
An in-depth study into the history and historiographical and philosophical debates of a particular issue or period in German history. May be repeated for credit.
- HIST 6100 United States Constitutional History** 3-0-3
Development of American constitutionalism from its origins in England and colonies to the present time.
- HIST 6105 European Ethnicity in American History** 3-0-3
A study of European immigration to the United States during the 19th and 20th centuries. The course will examine the reason why Europeans came to American, the problems they faced in the assimilation process, and the contributions they made to the growth of the United States.
- HIST 6106 Socialism and Anarchism, 1815-1933** 3-0-3
A comparative study of the socialist and anarchist movements in Europe and the United States from the end of the Napoleonic era to the beginning of the era of World War II. A major focus of this course will be how these movements were transmitted to the U.S. by European immigrants. Also examined is how these movements attempted to offer an alternative to capitalism and the problems brought on by industrialization, revolution, and global conflict.
- HIST 6201 Colonial America to 1789** 3-0-3
A study of English, French, and Hispanic cultures in America to 1789. Included are the American Revolution, the creation of the United States, and the establishment of a permanent government under the United States Constitution.
- HIST 6202 United States, 1789-1850** 3-0-3
A study of United States history from the Washington administration through the Compromise of 1850, focusing on political, cultural, social, and economic developments.
- HIST 6203 United States, 1850-1877** 3-0-3
A study of United States history from the Compromise of 1850 to the end of Reconstruction. Focuses on the sectional crisis of the 1850s, the Civil War, and the Reconstruction process after the war.
- HIST 6204 United States, 1877-1921** 3-0-3
A study of United States history from the end of Reconstruction to the end of the Wilson administration. Emphasizes diplomatic, ethnic, cultural, political, and social developments.
- HIST 6205 United States, 1921-1945** 3-0-3
A study of United States history from the end of World War I to the end of World War II. Focuses on the "Roaring '20s," the Great Depression, and U.S. involvement in World War II.
- HIST 6206 United States Since 1945** 3-0-3
A study of United States history since World War II with emphasis on political, cultural, social, and economic developments and the nation's foreign relations.
- HIST 6207 United States Diplomacy to 1921** 3-0-3
A study of United States foreign relations from the Revolutionary period through 1921.
- HIST 6208 United States Diplomacy since 1921** 3-0-3
A study of United States foreign relations since 1921.

- HIST 6210 History of Georgia** 3-0-3
A comprehensive survey of Georgia's development from the occupation by the earliest Indians to the present. Satisfies the Ga. History legislative requirement.
- HIST 6220 Local History** 3-0-3
A study of the methodology of local history research and writing. The course examines aspects of South Georgia history as a means of providing the student with an opportunity to apply the methodology.
- HIST 6221 The Old South** 3-0-3
A detailed study of the social, economic, cultural, and intellectual life of the colonial and antebellum South, with consideration of the influence of slavery.
- HIST 6222 The New South** 3-0-3
A history of the South since the Civil War, with special attention to political, social, economic, and cultural developments, as well as the problems of southern blacks after emancipation.
- HIST 6231 African American History to 1865** 3-0-3
The history of African-Americans from their origin in Africa to the end of slavery in the U.S., with emphasis on their economic life and social thought.
- HIST 6232 African American History Since 1865** 3-0-3
The history of the African-American struggle for equality after emancipation, with special focus on the problems of black leadership from Frederick Douglass to the present.
- HIST 6240 American Social History** 3-0-3
Analysis of the major trends in religion, culture, social structures, and social groups in the United States from the Colonial Era until the present. Particular attention is paid to the experiences of the various ethnic groups making up the American people.
- HIST 6250 History of Religion in the South** 3-0-3
Overview of general religious patterns and their influence on southern society, with particular attention to mass religious movements such as the Great Awakening, Great Revival, Mission/Antimission Movement, Confederate Religion, African American Religion, Holiness/Pentecostalism, the Charismatic Movement, and the rise of the Religious Right. The course also will focus on the origins and development of the major denominations in the South.
- HIST 6261 Women in the U.S. to 1869** 3-0-3
A study of United States history from the perspective of women. Includes social, cultural, political, intellectual, and economic aspects of the nation's history, and more specifically, the ways women influenced and were influenced by various events and movements in U.S. history from the Colonial period to 1869.
- HIST 6262 Women in the U.S., 1869 to the Present** 3-0-3
A study of United States history from the perspective of women. Includes social, cultural, political, intellectual, and economic aspects of the nation's history, more specifically, the ways women influenced and were influenced by various events and movements in U.S. history from 1869 to the present.
- HIST 6270 History of Women in the U.S. South** 3-0-3
A study of the history of the U.S. South from women's perspectives. An examination of the contributions of women to southern social, cultural, and political developments, and of the ways in which gender, class, and race influence women's regional identity.
- HIST 6280 History of U.S. Women Activists and Social Reformers** 3-0-3
An examination of women activists and reformers at different periods in U.S. history, of the issues that have motivated women to activism and reform efforts, and of the ways women have contributed to, influenced, and been influenced by various social movements in U.S. history

- HIST 6301 Colonial Latin America** 3-0-3
The founding, growth, and development of Latin America by Spain and Portugal to the wars of independence.
- HIST 6302 Republican Latin America** 3-0-3
Major historical trends in Latin America since the wars of independence.
- HIST 6303 The Spanish Borderlands** 3-0-3
Political, military, and social developments of Spain's borderlands from Virginia to California, 1513-1821.
- HIST 6304 The Caribbean** 3-0-3
Political, economic, social, and cultural developments of the major Caribbean countries, 1492 to the present.
- HIST 6401 East Asia** 3-0-3
An analysis of the principal historical and cultural developments in China, Japan, and Korea, with special emphasis upon the interactions of those nations among themselves, their responses to western culture, and their roles in regional and world affairs.
- HIST 6402 Asia in the Modern World** 3-0-3
A general overview of the role of Asia in the contemporary world, with special reference to such phenomena as geography, population trends, cultural diversity, and regional and world interactions of the Asian nations.
- HIST 6403 The Indian Subcontinent** 3-0-3
An analysis of the 5000-year-old culture of the Indian subcontinent and Sri Lanka, with major emphasis upon the indigenous religions of the region and the impact of western culture and Christianity. Other topics considered are population, caste, the family, village life, government organization, the impact of British rule, and the independence movements that led to the establishment of the independence of India, Sri Lanka, and Bangladesh.
- HIST 6404 History of the Vietnam War** 3-0-3
An exploration of the many interrelated aspects of the conflict in Vietnam. Topics include French colonization, Ho Chi Minh and Vietnamese nationalism, the 1946-1954 war between the French and the Vietminh, the Cold War policies of the United States, escalating United States intervention in Vietnam, the United States's war in Vietnam (1965-1973), the fall of Saigon, domestic opposition to the war within the U.S.A., and postwar legacies of the conflict.
- HIST 6500 History of the Middle East** 3-0-3
Overview of the political, religious, and cultural history of present-day Egypt, Sudan, Ethiopia, Israel, Lebanon, Syria, Iran, Turkey, Saudi Arabia, and the states of the Arabian peninsula from the birth of Mohammed to the present. Particular attention is paid to the beliefs, structure, and influence of religious groups, particularly Muslims.
- HIST 6511 Precolonial Africa** 3-0-3
An analysis of the 8000-year-old cultures of the Nile Valley, including Egypt, Nubia, and Kush; West Africa and its contacts with the Middle East and Europe; the East African city-states and their contacts with India.
- HIST 6512 Modern Africa** 3-0-3
An examination of the European colonization of Africa and the African response. The course also examines the emergence of African nationalism and the problems of creating new states.
- HIST 6810 Internship in History** 3-0-3 to 9-0-9
Supervised practical experience related to the discipline of history in an appropriate agency, combined with a program of academic work. The number of credit hours granted is dependent on the nature of the program, the hours worked, and the academic program approved in advance. A maximum of 6 hours will be awarded for HIST 6801. (Graded on satisfactory/unsatisfactory basis.)

HIST 7000 Seminar in Historiography	3-0-3
A seminar focusing on the history of historical writing from the ancient world to the present. Topics covered include major themes, schools of thought, methods of research, and the writings of influential historians.	
HIST 7101/7102/7103 Seminars in United States History	3-0-3 each
Seminars on selected topics in the history of the United States.	
HIST 7201/7202 Seminars in English History	3-0-3 each
Seminars on selected topics in English history.	
HIST 7301/7302 Seminars in European History	3-0-3 each
Seminars on selected topics in European history.	
HIST 7401/7402 Seminars in Latin American History	3-0-3 each
Seminars on selected topics in Latin American history.	
HIST 7501/7502 Seminars in Asian History	3-0-3 each
Seminars on selected topics in Asian history.	
HIST 7600 Seminar in African History	3-0-3
Seminar on selected topics in African history	
HIST 7700 Seminar in Middle Eastern History	3-0-3
Seminar on selected topics in Middle Eastern history.	
HIST 7800 Seminar in Women's History	3-0-3
Seminar on selected topics in Women's history.	
HIST 7950 Directed Study in History	3-0-3
Supervised readings in areas of history not normally available in regular graduate course offerings, with regular conferences between instructor and student.	
HIST 7999 Thesis	6-0-6

INTL: INTERNATIONAL PROGRAMS

INTL 5000 Foreign Exchange	0-0-0
A course for foreign students enrolled at VSU under official exchange agreements of the University.	
INTL 5170 Topics in International/Intercultural Studies	<u>1-0-1</u> to 3-0-3
Special topics in international studies include on-campus experiences, seminars, workshops such as the National Model United Nations program, and the courses offered in conjunction with the Focus lecture series each spring. May be repeated for credit.	
INTL 5500 Study Abroad	0-0-0 to 3-6-3
Prerequisite: Acceptance to a VSU study abroad program. Courses for students studying abroad on VSU-approved programs. Students must have written approval from the Center for International Programs and relevant academic units to register for these courses. The number of credit hours granted is dependent on the nature of the program. Faculty supervisors in relevant departments will be responsible for assigning credit and reporting grades.	
INTL 5501 Study Abroad	0-0-0 to 3-6-3
Prerequisite: Acceptance to a VSU study abroad program. Courses for students studying abroad on VSU-approved programs. Students must have written approval from the Center for International Programs and relevant academic units to register for these courses. The number of credit hours granted is dependent on the nature of the program. Faculty supervisors in relevant departments will be responsible for assigning credit and reporting grades.	

INTL 5502 Study Abroad

0-0-0 to 3-6-3

Prerequisite: Acceptance to a VSU study abroad program. Courses for students studying abroad on VSU-approved programs. Students must have written approval from the Center for International Programs and relevant academic units to register for these courses. The number of credit hours granted is dependent on the nature of the program. Faculty supervisors in relevant departments will be responsible for assigning credit and reporting grades.

ITED: INSTRUCTIONAL TECHNOLOGY

ITED 7000 Technologies for Teaching and Learning 3-0-3

Exploration and application of tools and techniques to support education, academic productivity, and professional development. Includes legal and ethical issues related to technology.

ITED 7040 Thinking and Learning with Computers 3-0-3

Exploration of computer applications as cognitive tools for engaging and enhancing thinking in learners. Examines the theoretical, pedagogical and practical reasons for using computers as thinking tools.

ITED 7050 Distance Education 3-0-3

Introduction to distance education technologies and their utilization as instructional delivery systems.

ITED 7070 Decision-Oriented Research and Evaluation 3-0-3

Introduction to field-based research and evaluation issues and methodologies. The course covers problem identification, sources of data, communication with clients, legal and ethical considerations, use of data for decision making, and research and evaluation techniques, including action research.

ITED 7080 Technology and Learning Standards 3-0-3

Integration of technology into learning environments with an emphasis on matching technology with instructional approaches, content, student needs, and assessment to meet Georgia QCC standards.

ITED 7100 Foundational Theories in Instructional Technology 3-0-3

Introduction to theories of learning, instruction, communication, information, and systems as applied to research and practice in the field of instructional technology. Includes presentation skills and instructional techniques.

ITED 7200 Information Resources I 3-0-3

Introduction to information sources including Internet and databases, search strategies, information retrieval, access issues, legal and ethical issues, and evaluation of information.

ITED 7201 Information Resources II 3-0-3

Prerequisite: ITED 7200. Development and application of knowledge and skills in information resources with emphasis on P-12 media center resources and services. Covers strategies for integrating information access skills into the curriculum, selection and evaluation of software and other resources, and building and managing media center collections.

ITED 7202 Bibliographic Organization 3-0-3

Prerequisite: ITED 7200. Introduction to basic AACR2R rules and U.S. MARC as applied to integrated microcomputer-based automated systems. Includes bibliographic networks (i.e., OCLC, GOLD), resource sharing, database maintenance and evaluation.

Credit notations on the far right are in the pattern 3-0-3. The first number is the number of lecture hours (or equivalent) each week; the second number is the number of laboratory hours (or equivalent) each week; the third number, **in bold**, is the number of semester hours credit.

- ITED 7299 Internship in Educational Media Center** 3-0-3
Prerequisite: Approval of advisor. Study and practice in administering an educational media center. Includes planning, coordinating, supervising, budgeting, and evaluating center services and programs.
- ITED 7300 Instructional Design & Development I** 3-0-3
Prerequisite: ITED 7100 or permission of the instructor. Introduction to the systematic design of instruction, including front-end analysis, use of instructional and learning theories to select learning strategies, basic production, assessment, and formative and summative evaluation.
- ITED 7301 Instructional Design and Development II** 3-0-3
Prerequisite: ITED 7300 or permission of the instructor. Application of systematic design principles to instructional and non-instructional projects. Includes project management, team building, and development issues for different delivery systems.
- ITED 7302 Needs Assessment** 3-0-3
Prerequisite: ITED 7100 or permission of the instructor. Application of research and evaluation skills to a field-based needs assessment; investigation of non-instructional solutions with attention to performance improvement. The course includes the use of job task analysis, consideration of organizational cultures, and application of team-building skills.
- ITED 7303 Instructional Design and Development III** 3-0-3
Prerequisite: ITED 7301 and ITED 7302. Development of a professional project in which students design, implement, and evaluate an instructional product or learning environment.
- ITED 7399 Internship in Technology Applications** 3-0-3
Prerequisite: Approval of advisor. A university-supervised field experience in an instructional technology setting.
- ITED 7400 Automation and Networking** 3-0-3
Prerequisite: ITED 7200. Hands-on introduction to the process of automation and networking. Includes standards, software and hardware selection, maintenance, repair, implementation, and evaluation.
- ITED 7401 Using Networked Systems for Teaching and Learning** 3-0-3
Prerequisite: ITED 7200. Practical experiences in setting up, managing, and using network applications to support instruction, collaboration, and computer-mediated communication.
- ITED 7403 Instructional Technology Leadership Seminar** 3-0-3
Prerequisites: ITED 7100 and ITED 7200, or permission of the instructor. In-depth investigations of specific contemporary topics and technologies using computer-mediated communications. Electronic media are the primary vehicles for course content and contact.
- ITED 7500 Instructional Technology Management** 3-0-3
Prerequisites: ITED 7300 and ITED 7400, or permission of the instructor. Introduction to management principles in an IT context. The course includes theory and practice in strategic planning, the change process, program administration, use of human and physical resources, and budgeting for service-oriented functioning.
- ITED 7900 Special Topics in Instructional Technology** 1-0-1 to 3-0-3
 In depth study of specific issues in instructional technology. Course may be repeated under different topics.
- ITED 8100 Theories, Models, and Perspectives of Instructional Technology** 3-0-3
 Survey and analysis of the theoretical perspectives of change, communication, diffusion, systems, learning, and instruction as applied in instructional technology.
- ITED 8200 Database/Internet Applications** 3-0-3
Prerequisite: ITED 7200 or equivalent. Advanced principles and techniques of searching the Internet and a variety of databases. Covers file and thesauri structures, principles of indexing and abstracting, information management, Internet applications, and curriculum integration.

- ITED 8300 Technology Tools for Training and Education** 3-0-3
Prerequisite: ITED 7301 or equivalent instructional design course. Application of various technologies and products for instructional development. Includes in-depth use of computer-related technology tools to create effective instructional materials.
- ITED 8400 Technology Selection for Learning Environments** 3-0-3
Prerequisite: ITED 8100. Practical experiences as evaluators and consumers of educational technology based on research and review of commercial, educational, and other authoritative sources. The course includes source, vendor, and product analysis, study of effectiveness and other benefits, and incorporation in technology plans and facilities.
- ITED 8500 Leadership in Instructional Technology** 3-0-3
 A study of theories and techniques for facilitating instructional and technological change. Emphasis is on team building, reflective practice and application in a field-based setting.
- ITED 8900 Special Topics in Instructional Technology** 1-0-1 to 3-0-3
 Advanced study of specific contemporary issues in instructional technology. Course may be repeated under different topics.
- ITED 8970 Research Seminar** 3-0-3
Prerequisite: ITED 7070 or equivalent. A review of studies applying a variety of methodologies to problems in instructional technology. The course includes development of a research proposal. May be repeated.
- ITED 8980 Review of Literature** 2-0-2
Prerequisite: ITED 7070 or equivalent. The writing of a critical review of current research on a specific topic related to curriculum and instructional technology. May be repeated.
- ITED 8999 Journal-Ready Thesis** 3-0-3
Prerequisites: ITED 7070 and ITED 8970. The data collection, analysis, and reporting phase of the Education Specialist research project. May be repeated.

KSPE: KINESIOLOGY AND PHYSICAL EDUCATION

- KSPE 6000 Movement Education** 3-0-3
 A practical approach to movement education. Emphasis is placed on accountability, program planning, discovery, learning-teaching methods, and the design, construction and installation of low cost equipment. Individualization of success experiences for all children is a major portion of the program.
- KSPE 6500 Workshop in Coaching Athletics** 3-0-3
 A workshop dealing with the techniques and strategies of football, basketball, baseball, and track. General topics relating to the psychology of coaching to administrator's problems and to physiological principles are also covered.
- KSPE 7000 Health Education for Early Childhood and Middle Grades Teachers** 3-0-3
Prerequisite: KSPE 4100 or permission of instructor. The advanced study of the school health program with special attention given to meeting cognitive and affective objectives in health instruction.
- KSPE 7010 Exercise Physiology** 2-2-3
 Principles of physiology with special emphasis on the integration of organ systems in adapting to the requirements of muscular activity during exercise.
- KSPE 7020 Scientific Analysis of Human Movement** 2-2-3
 Mechanical analysis of motor skills with special emphasis on the laws of physics and their application to physical education and athletics.
- KSPE 7030 Applied Structural Anatomy and Kinesiology** 2-2-3
Prerequisite: BIOL 2651. In-depth study of the human structural and neuromuscular anatomy. Special emphasis is placed upon analysis of the extremities and joint structures as related to sport, injury conditions, and exercise prescriptions.

- KSPE 7040 Motor Learning** 3-0-3
Theories of learning and other psychological principles that relate to the mastery of motor skills are explored. Current research in both educational psychology and physical education is investigated.
- KSPE 7050 Advanced Exercise Testing and Prescription for Various Populations** 3-0-3
Prerequisite: KSPE 3011 or equivalent or permission of the instructor. Advanced concentrated study of KSPE 3011. Topics include various exercise testing protocols for specific populations, radionuclide techniques, predictive implications, value a screening tool, problems related to exercise electrocardiogram, interpretation, and exercise recommendations and prescription.
- KSPE 7060 Exercise Electrocardiography** 3-0-3
Prerequisite: BIOL 2652. A basic understanding of the 12-lead electrocardiogram as it relates to graded exercise testing, training, and functional evaluation. The course is designed particularly to assist the clinical exercise physiologist in developing the skills required for quickly identifying electrocardiographic patterns at rest and during exercise.
- KSPE 7070 Sports Nutrition** 3-0-3
Prerequisite: KSPE 3200 or permission of instructor. Emphasizes the application of nutritional concepts to sport and physical activity. Included will be information relative to dietary modifications for optimal athletic performance.
- KSPE 7080 Sport Related Illnesses and Conditions** 3-0-3
Designed to provide an in-depth investigation and study of sport related illnesses and conditions. The course will also study proper techniques and methodologies of assessing and managing these illnesses and conditions.
- KSPE 7090 Health in the Social Community** 3-0-3
Prerequisite: KSPE 4100 or permission of instructor. Designed to acquaint the student with health programs in the community and how an individual may avail him/herself of the programs.
- KSPE 7100 Exercise Cardiovascular Physiology** 3-0-3
Prerequisite: KSPE 3420. A concentrated study in exercise physiology of the healthy and diseased heart. Emphasis is placed on normal versus abnormal conditions and their effect on exercise testing and training and myocardial adaptations under conditions of acute and chronic exercise.
- KSPE 7110 Adapted Developmental Physical Education** 3-0-3
Promotes an understanding of special physical education with emphasis on the handicapped person and the role of competitive sport for handicapped and disabled individuals.
- KSPE 7120 Physical Education Pedagogy** 3-0-3
Provides the student with opportunities to research and apply a variety of teaching models and teaching methodologies in addition to related instructional practices associated with physical education.
- KSPE 7130 Curriculum in Physical Education** 3-0-3
Criteria and methods of curriculum construction as they apply to health education and physical education are examined. The modern conceptual approach and its implication on the physical education and health education program P-12 are also explored.
- KSPE 7140 Physical Education for Early and Middle Childhood Teachers** 3-0-3
Examines the growth and developmental patterns of children and how physical education programs and activities are developed for students preschool through grade eight. How the physical education program integrates with the total school program and curriculum is also discussed. This class is for early childhood and middle grades classroom teachers, not physical education majors.

- KSPE 7150 Evaluation in Physical Education** 3-0-3
Techniques of evaluation in physical education are investigated and a critical analysis of evaluation tools used in research is made.
- KSPE 7200 Contemporary Issues in Health and Physical Education** 3-0-3
An exhaustive inquiry and discussion of contemporary personal, public health and physical education issues at the local, national, and international levels with special emphasis on the effects of these issues on health and physical education.
- KSPE 7210 History and Philosophy of Physical Education** 3-0-3
The development of current attitudes and beliefs in the field of Health and Physical Education are traced and analyzed.
- KSPE 7220 Sociology of Sport** 3-0-3
The relationship between sport and culture is explored and sport's effect on human relations is analyzed.
- KSPE 7230 Psychology of Sport** 3-0-3
The relationship between sport and pertinent psychological principles is investigated. In-depth analysis of research in the area is also undertaken.
- KSPE 7240 Organization and Administration of Physical Education** 3-0-3
Current organizational patterns and administrative techniques are analyzed and applications to practical situations are stressed.
- KSPE 7250 Ethics in Sports** 3-0-3
An investigation of the ethical issues involved in sports and society. This investigation will proceed by applying philosophical techniques in ethical problem-solving. The course will consider what these problems are, how they arise, and possibilities for how they may be solved.
- KSPE 7300 Special Topics in Physical Education** 1-0-1 to 6-0-6
Prerequisite: Permission of the instructor. Permits the development of special topics or issues in the areas of health, physical education, health education, health fitness, and sports medicine.
- KSPE 7400 Directed Study in Health Sciences and Physical Education** 1-0-1 to 6-0-6
Prerequisite: Approval of Area Coordinator, Graduate Coordinator and Department Head. Development and in-depth study of an approved topic of interest pertinent to the fields of health sciences and physical education but not currently offered within the existing program.
- KSPE 7700 Advanced Organization and Management of Health, Fitness, and Sports Medicine Facilities** 3-0-3
Examines and discusses currently accepted management and organizational techniques and philosophies in the areas of health, fitness, and sports medicine facilities.
- KSPE 7900 Internship** 1-0-1 to 6-0-6
Prerequisite: Approval of advisor, Program Coordinator, Graduate Coordinator, and Department Head. Provides the student with an opportunity to apply what they have learned in the classroom to actual working situations, as well as learn from professionals they will work with in the field.
- KSPE 7910 Professional Development Seminar** 2-0-2
Prerequisite: Completion of education core and courses in area of concentration. Serves as an introspective and retrospective look at the student's program of study. It may also serve as the opportunity for an exit interview.
- KSPE 7999 Research and Thesis** 1-0-1 to 6-0-6
For students developing and writing a thesis and as recommended and approved by the student's thesis advisor.

LEAD: EDUCATIONAL LEADERSHIP

- LEAD 7010 Ethics and Issues in Educational Leadership** 3-0-3
A study with emphasis on its application to contemporary issues in the field of educational leadership.
- LEAD 7100 Educational Leadership** 3-0-3
An examination of the application of the processes of interpersonal relations and effective leadership and their relationship to successful school programs.
- LEAD 7200 Principles of Curriculum and Instruction for Educational Leaders** 3-0-3
Prerequisite: RSCH 7100, LEAD 7210. An examination of curriculum development and contemporary changes as they relate to social aims, learner characteristics, and social problems. Existing research in the area of curriculum and instruction pertinent to educational leaders is critiqued. Emphasis is on curriculum and instruction foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels.
- LEAD 7210 Ethics and Laws** 1-0-1
Review of the major statutes and litigation affecting educational and educational-related areas as well as ethical decision-making practices. Emphasis is on information about professional ethics and behavior appropriate to educational and educationally-related settings.
- LEAD 7300 Fiscal and Facilities Management for Educational Leaders** 3-0-3
Prerequisite: RSCH 7100, LEAD 7210. Content covers the area of financing of school corporations in the current economic and political setting, with emphasis on interrelationships of educational, economic, and political decisions. Applications of school business management practices to support such services as transportation, food service, plant services are analyzed.
- LEAD 7400 Legal Issues for Educational Leaders** 3-0-3
Prerequisite: RSCH 7100, LEAD 7210, LEAD 7100. An overview of the legal structure of education, liability, constitutional rights, contractual relationships, federal and state regulations, collective action, and special education rules and regulations is provided. Historical perspective in law and education with in-depth review of case law, showing the evolution of courts as educational policy makers.
- LEAD 7500 Human Resource Management and Development** 3-0-3
Examination of the recruitment, selection, and intuction of new employees; Faculty development and evaluation; laws relating to employment practices; and interpersonal skills involved in student, staff, and community relationships.
- LEAD 7650 Leadership Issues in Higher Education** 3-0-3
Prerequisite: LEAD 7010, LEAD 7210, LEAD 7100, RSCH 7100. The processes of effective leadership and their relationship to the success of educational and educationally-related programs at the community level will be analyzed. Organization and administration of relevant settings with a focus on the competencies necessary for leadership and management at the community level.
- LEAD 7700 Supervision of Instructional Programs** 3-0-3
Study of the knowledge and skills necessary for the effective and efficient supervision of instructional programs. A variety of supervisory models will be employed. Knowledge of learning, teaching, and student development will be stressed as a basis for making supervisory decisions.
- LEAD 7795 Professional Seminar in Pupil Personnel Services** 1-0-1
Corequisite Courses: PSYC 7795 and SOWK 7850. Designed for professionals holding a certificate, or are certificate eligible, in school counseling, school psychology, or school social work. The role and function of each service area are explicated, developed, and validated within a collaboratively instructed forum.

- LEAD 7800 Organization and Governance of Higher Education** 3-0-3
 An introduction to the organization of post-secondary institutions, the governance of these institutions, and the day-to-day as well as the long term administration of such institutions. This course is appropriate for those who are now or will be working in post secondary education at any level as it offers explanation and increased understanding of the organizational dynamics of institutions of higher education.
- LEAD 7810 Finance and Budgeting in Higher Education** 3-0-3
 This course considers all sources of financing in higher education, the types and sources of student financial aid, budgeting, and cost effectiveness analysis. In addition, the articulation of each of these issues with the institution's mission and goals is a major thrust of the course.
- LEAD 7820 Assessment and Evaluation in Higher Education** 3-0-3
 An introduction to the concept of institutional effectiveness which focuses on an institution's ability to use planning strategies and evaluation information to assess current performance and plan for improvements. The design and appropriate implementation of assessment and evaluation methods as they relate to addressing various accreditation standards will be examined. Examples of how to develop a comprehensive system of evaluation related to missions and goals will be described for academic and non-academic support units.
- LEAD 7830 Law and Policy in Higher Education** 3-0-3
 This course is intended to familiarize students with statutory and case law that has implications for higher education administrators and policy makers with particular emphasis on such areas as employment, including affirmative action, dismissal, contracts, civil rights, due process, and student rights.
- LEAD 7900 Internship in Educational Leadership I** 1-9-3
Prerequisite: Consent of instructor. A supervised field experience designed for the student to acquire and demonstrate appropriate educational leadership, administrative, and instructional supervision competencies.
- LEAD 7910 Internship in Educational Leadership II** 1-9-3
 A supervised field experience designed for the student to acquire and demonstrate appropriate educational leadership, administrative, and instructional supervision competencies.
- LEAD 7921 Internship Preparation in Higher Education Leadership** 3-0-3
Prerequisite: Core courses and permission of advisor. A supervised internship relevant to the student's program in post-secondary leadership is provided. This field experience is focused on acquiring first-hand knowledge of appropriate leadership, administrative, and management competencies at the post-secondary level.
- LEAD 7922 Internship in Higher Education Leadership** 3-0-3
Prerequisite: LEAD 7921 and permission of advisor. A supervised internship relevant to the student's program in post-secondary leadership is provided. This field experience is focused on developing appropriate leadership, administrative, and management competencies at the post-secondary level.
- LEAD 7923 Advanced Internship in Higher Education Leadership** 2-0-2
Prerequisite: LEAD 7922 and permission of advisor. A supervised internship relevant to the student's program in post-secondary leadership is provided. This field experience is focused on the demonstration of appropriate leadership, administrative, and management competencies.
- LEAD 8200 School Reform and Change** 3-0-3
 Effective strategies and tactics for changing schools, varieties of school restructuring, and the individual and organization dynamics involved in change will be presented. Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and apply them to selected situations.

- LEAD 8300 Social Context of Educational Leadership** 3-0-3
A retrospective contemporary and prospective examination of the social, cultural, political, and philosophical contexts from which the current issues that affect schools and schooling have evolved.
- LEAD 8400 Organizational Theory for Educational Leaders** 3-0-3
Prerequisite: RSCH 8000, LEAD 8200, LEAD 8300. A critical analysis of the theoretical assertions and empirical knowledge claims that have led to the dominant structures, power relationships, and performance expectations of American schools.
- LEAD 8410 Special Education Law for Educational Leaders** 3-0-3
Introduction, for practicing and prospective school administrators, to the legal aspects of the education of students with disabilities. Includes statutes, case law, and administrative regulations pertaining to special education
- LEAD 8610 School, Community, and Media Relations for Educational Leaders** 3-0-3
Prerequisite: RSCH 8000. This course examines school-community-media relationships and techniques of communication employed between the school and a variety of public groups. Typical situations in which conflict is present in educational and educationally-related settings are analyzed, with a focus on conflict management skill acquisition.
- LEAD 8650 Personnel Issues and Consideration** 3-0-3
Prerequisite: RSCH 8000, LEAD 8200, LEAD 8300, LEAD 8400, LEAD 8600. Role definitions of personnel supervision, analysis of role conflict, needs assessments, observation and diagnosis of teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance will be discussed. Administration of school personnel policies and practices relating to professional staff, supporting staff, and students will be analyzed.
- LEAD 8660 Business and Finance** 3-0-3
Prerequisite: RSCH 8000, LEAD 7300. This course conveys the business and financial functions involved in managing schools, such as staffing, salary, scheduling, inventories, and accounting procedures. Development, implementation, and evaluation of financial resource and allocation systems will be examined.
- LEAD 8670 Educational Facilities** 3-0-3
Prerequisite: RSCH 8000, LEAD 7300 or appropriate ITED course. The design and administration of effective and economical educational facilities in relation to contemporary trends and conditions will be examined. Issues to be considered in the planning, construction, and use of educational facilities will be evaluated.
- LEAD 8680 Site-Based Management** 3-0-3
Prerequisite: RSCH 8000. Knowledge and skills for implementing shared decision-making, group goal-setting, team-building, and site-based management will be addressed. Skills and procedures for implementing site-based management will be developed.
- LEAD 8850 Directed Study in Educational Leadership** 1-0-1 to 3-0-3
Prerequisite: RSCH 8000. This course allows intensive study in the student's field of specialization to meet individual needs and interests.
- LEAD 8901 Practicum** 3-0-3
Prerequisite: RSCH 8000, LEAD 8200, LEAD 8300, LEAD 8400, LEAD 8600. This course provides supervised application of leadership competencies to the resolution of problems in an educational setting.
- LEAD 8999 Thesis** 3-0-3
Prerequisite: LEAD 8901. This course provides a supervised capstone field-based project involving school improvement.
- LEAD 9000 Special Topics in Educational Leadership** 3-0-3
Advanced study focusing on public school improvement and or the improvements of school leaders through student-designed projects, research, or practica that address the program's conceptual framework.

- LEAD 9010 Instructional Leadership for School Administrators** 2-0-2
Focus on the theoretical and practical knowledge base in educational leadership and the skills and processes needed for school improvement. Emphasis will be placed on leadership for instruction and learning to meet the needs of a diverse community of learners.
- LEAD 9020 Planning for Instructional Leaders** 2-0-2
Theoretical and practical aspects of change, with emphasis on the knowledge and skills to plan for change in an efficient, effective, and systematic fashion for instructional improvement in schools.
- LEAD 9030 Leadership Problems: Interdisciplinary Analysis** 2-0-2
Prerequisite: LEAD 9010, LEAD 9020. The focus of this course is on the application of interdisciplinary analysis and leadership skills to the resolution of educational problems and issues.
- LEAD 9870 School Organizational and Cultural Studies** 3-0-3
Prerequisite: LEAD 9800, RSCH 9820, RSCH 9840, RSCH 9860. Simulation and field practice in developing and implementing educational research on the effects of school organization and culture.

MATH:MATHEMATICS

- MATH 5010 History of Mathematics** 3-0-3
Prerequisite: MATH 2261. A study of the development of mathematics from primitive times to the twentieth century; including numeral systems, arithmetical methods, origins of algebra, geometry, trigonometry, analytic geometry, calculus; and selected topics from modern mathematics.
- MATH 5040 Set Theory** 3-0-3
Prerequisite: MATH 2262. Propositional and predicate logic; mathematical induction. Logic and structure of sets as related to mathematical proof. Relations, and cardinality.
- MATH 5080 Algebraic Structures** 3-0-3
Prerequisite: MATH 3040/5040. An examination of the structural foundations of the secondary school algebra curriculum. Topics include rings, integral domains, groups (including groups of transformations) and polynomials. Emphasis on development of students' deductive reasoning and proof techniques.
- MATH 5140 Mathematics for Special Education Teachers** 3-0-3
Prerequisite: MATH 1111. Fundamental mathematical concepts beginning with prenumber notions and then extending to number concepts, numeration systems, and computational algorithms for whole and rational numbers; geometry and measurement, and the role of technology in mathematics instruction.
- MATH 5160 Mathematics for Early Childhood Teachers** 3-0-3
Prerequisite: MATH 1111. A study of concepts and processes underlying the elementary school mathematics curriculum (K-4). Topics include numeration, number systems, estimation, computational algorithms, informal geometry, and measurement.
- MATH 5162 Mathematics for Early Childhood Teachers II** 2-2-3
Prerequisite: Grade of "C" or higher in Math 3161. An in-depth study of concepts and processes underlying the P-5 school mathematics curriculum, with special emphasis on measurement, geometry, and the fundamentals of probability and statistics. Problem solving and historical context serve as unifying strands.

- MATH 5180 Mathematics for Middle School Teachers** 2-2-3
Prerequisite: MATH 1111. Concepts and processes that provide the foundation for the middle-grades mathematics curriculum (5-8). Includes an in-depth study of the real number system with emphasis on the rational number system and axiomatic differences among number systems. Other topics include relations and functions, geometry (including coordinate geometry and graphing), measurement, and elementary probability and statistics.
- MATH 5190 Algebra and Geometry for Teachers** 2-2-3
Prerequisite: Grade of “C” or higher in either MATH 1111 or MATH 1113. An in-depth study of the concepts and processes underlying the middle and secondary school mathematics curriculum, with special emphasis placed upon the integrated development of algebra, geometry, and analytical geometry. Problem solving and historical context serve as unifying strands.
- MATH 5340 Ordinary Differential Equations** 3-0-3
Prerequisite: MATH 2402 or consent of instructor. Differential equations of first and second order, linear equations of higher order, applications.
- MATH 5510 Foundations of Geometry** 3-0-3
Prerequisite: MATH 3040/5040. A study of Euclidean and non-Euclidean plane geometry from both synthetic and metric approaches. Topics include concepts related to incidence, betweenness, plane separation and convexity, congruence, and parallelism, with some attention given to geometric transformations.
- MATH 5600 Probability and Statistics** 3-0-3
Prerequisite: MATH 2261. Descriptive statistics, probability distributions for discrete and continuous random variables, statistical inference, one way analysis of variance, and regression analysis.
- MATH 6081 Modern Algebra I** 3-0-3
Prerequisite: MATH 4150/6150 or MATH 3040/5040 or consent of instructor. Topics from groups, rings, and fields. Subgroups, cyclic groups, permutation groups, normal subgroups, homomorphisms, Cayley’s and Lagrange’s Theorems, factor groups, abelian groups, direct products. Introduction to rings and fields.
- MATH 6082 Modern Algebra II** 3-0-3
Prerequisite: MATH 4081/6081. Continuation of MATH 6081 with emphasis on rings and fields. Rings, integral domains, and fields. Vector spaces, extension fields, finite fields.
- MATH 6085 Applied Modern Algebra** 3-0-3
Prerequisite: MATH 4081/6081. Lattices, Boolean algebras, semigroups, binary group codes, binary relations, and graphs. Special emphasis is placed on applications.
- MATH 6110 Number Theory** 3-0-3
Prerequisite: MATH 2262. Elementary properties of integers including divisibility, unique factorization, progressions and prime numbers. Linear congruencies and residue classes, complete and reduced residue systems, Chinese Remainder Theorem, quadratic residues, law of quadratic reciprocity, Theorems of Fermat and Wilson, Fibonacci and perfect numbers, sums of squares, elementary theory of continued fractions.
- MATH 6150 Linear Algebra** 3-0-3
Prerequisites: *Either* MATH 2150 and MATH 3040/5040 *or* consent of instructor. Introduction to the theory of vector spaces, with emphasis on finite-dimensional vector spaces, linear systems, matrices, linear transformations, eigenvalues, and related subjects.
- MATH 6161 Mathematical Reasoning** 2-2-3
Prerequisite: Grade of “C” or higher in either MATH 3161 or MATH 3180. An in-depth study of concepts and processes underlying the P-8 school mathematics curriculum with special emphasis on informal and formal mathematical reasoning. Problem solving and historical context serve as unifying strands. The analysis and remediation of student errors manifested in the application of conceptual and procedural mathematical knowledge will also be addressed.

- MATH 6260 Mathematical Analysis** 3-0-3
Prerequisites: MATH 3040/5040 *or* consent of instructor *or* MATH 2263 with a grade of “A” or “B”. A study of the principles of mathematical analysis; point set topology in Euclidean and metric spaces, numerical sequences and series, continuity, differentiation, integration, sequences and series of functions.
- MATH 6300 Functions of a Complex Variable** 3-0-3
Prerequisite: MATH 2263. Introductory study of the algebraic and geometric properties of the complex number system and functions of a complex variable. Limits, continuity, and differentiation of complex functions. Analytic functions and the Cauchy-Riemann conditions. Integration of complex functions; Cauchy-Goursat theorem; Cauchy integral formula; the theorems of Morera and Liouville. Taylor and Laurent series expansions. Residues and poles with applications to integration. Conformal mappings.
- MATH 6540 Introduction to Topology** 3-0-3
Prerequisite: MATH 3040/5040. The study of point set topology in metric and topological spaces. Open and closed sets, compactness, connectedness, topological mappings, separation, product and functions spaces.
- MATH 6621 Mathematical Statistics I** 3-0-3
Prerequisites: MATH 2263 and either MATH 2620 or MATH 3600/5600. Distributions of random variables, conditional probability and stochastic independence, multivariate and some special distributions, and distributions of functions of random variables.
- MATH 6622 Mathematical Statistics II** 3-0-3
Prerequisite: MATH 4621/6621. Introduction to statistical inference, sufficient statistic, estimation theory, theory of statistical tests, and inferences about normal models.
- MATH 6625 Topics in Applied Statistics** 3-0-3
Prerequisite: MATH 3600/5600 or consent of instructor. Topics in applied statistics will be selected from quality control, sampling theory, nonparametric statistics, experimental design, or regression analysis.
- MATH 6651 Numerical Analysis I** 3-0-3
Prerequisites: MATH 2262 and either CS 1301 or CS 1338. Development and implementation of efficient numerical methods; locating roots of nonlinear equations; solving systems of linear equations; numerical differentiation and integration; interpolation; approximation of functions.
- MATH 6652 Numerical Analysis II** 3-0-3
Prerequisites: MATH 4651/6651 and MATH 3340/5340. Continuation of MATH 6651. Determination of eigenvalues and eigenvectors of matrices; method of least squares, and curve fitting; numerical solutions of ordinary and partial differential equations.
- MATH 6901 Operations Research I** 3-0-3
Prerequisite: MATH 2150 or MATH 4150/6150. Mathematical aspects and applications of operations research. Topics are selected from linear programming (mainly), integer programming, and dynamic programming.
- MATH 6902 Operations Research II** 3-0-3
Prerequisite: MATH 3600/5600 or MATH 4621/6621 (Note that MATH 4901/6901 is not a prerequisite). An introduction to stochastic operations research. Topics are selected from stochastic modeling and optimization, probability models, queuing theory, and Monte Carlo simulation.
- MATH 6910 Mathematical Models** 3-0-3
Prerequisite: MATH 2263 or consent of instructor. An introduction to basic principles and applications of classical mathematical models, optimization models and probabilistic models.

MBA: MASTER OF BUSINESS ADMINISTRATION
(See WMBA for Web-Based MBA Courses)

- MBA 7030 Managerial Accounting** 3-0-3
Prerequisites: ACCT 2101 and ACCT 2102 or their equivalents. An overview of the role of the accounting function in organizations. Emphasis is placed on analyzing financial information to enhance managerial decision making. The course is designed to assist managers in developing processes for evaluating the merits of historical and forecast data and using such information to add value to organizations.
- MBA 7050 Strategic Marketing** 3-0-3
Prerequisites: BUSA 2106 and MKTG 3050 or their equivalents. A study of the strategic managerial aspects of marketing. Topics focus on product, price, promotion, and place in the ethical planning, implementing, and controlling of marketing operations.
- MBA 7110 Advanced Business Law** 3-0-3
A study of a variety of legal topics that provide both an overview and a sensitivity to the multiple legal implications faced by modern businesses. This course is designed to satisfy the needs of students interested in general management and students preparing for professional accounting certification exams.
- MBA 7300 Advanced Production Techniques** 3-0-3
A survey of current production management systems and philosophies. Topics include current production systems, quality management concepts, and implementation of manufacturing planning and control systems.
- MBA 7350 Managerial Finance** 3-0-3
Prerequisite: FIN 3350 or equivalent. An advanced study of the theory, principles, and practices that define the finance function in the firm as viewed from the perspective of the financial manager. The topics covered include financial planning, capital budgeting, financing the firm, capital structure management, and dividend policy. Computerized financial models are used to apply financial principles to financial problems and decision making.
- MBA 7450 Management Information Systems** 3-0-3
Prerequisite: CS 2201 or equivalent. Methodologies and infrastructures used at the project level to select, acquire, install, operate, and upgrade software, hardware, and networking technology, with an emphasis on analysis, design, and implementation. Topics will also include LANs, MANs, WANs, and World Wide Web.
- MBA 7500 Managerial Economics** 3-0-3
Prerequisites: ECON 2106 and ECON 2105 or their equivalents. The application of economic principles and methodologies to the decision-making process of a business firm. Key topics include optimization and statistical techniques, consumer behavior, market demand analysis for decision making, demand forecasting, production and cost relationships, cost estimation and forecasting, and business pricing decisions.
- MBA 7630 Organizational Theory and Behavior** 3-0-3
Prerequisite: MGNT 3250 or equivalent. Study of both micro- and macro-organizational behavior. Topics include motivation, leadership, job satisfaction, individual differences, group dynamics, design, organizational structure and processes, organizational politics and organizational conflict.
- MBA 7650 Multinational Corporate Finance** 3-0-3
Theory and practice of multinational corporate operations. Includes the study of foreign exchange markets, risks associated with foreign exchange transactions, accounting consolidations and foreign operations, and appropriate exchange-risk hedging techniques.

- MBA 7660 Advanced Quantitative Methods** 3-0-3
Prerequisite: BUSA 2100 or equivalent. A seminar in the procedures, techniques and applications of quantitative methods in business. Topics include classical inference procedures, nonparametric methods, regression analysis, analysis of variance, contingency table analysis, decision theory and an introduction to methods for quality improvement. Computer software will be used in the analysis of data.
- MBA 7760 Advanced Retailing** 3-0-3
 An advanced study of the managerial processes and opportunities in both large and small scale retailing. Topics include location, store design, merchandising and buying. MBA program elective course.
- MBA 7770 Distribution Management** 3-0-3
 A study of the aspects of physical distribution and warehousing of products. Topics include principles of inventory and materials management with emphasis on the role of distribution in the economic development of south Georgia. MBA program elective course.
- MBA 7780 Human Resource Management** 3-0-3
 Survey of human resource management in business. Topics include the legal environment of human resource management, human resource planning, job analysis, recruitment, managing diversity, selection, development, compensation, benefits, quality of work life, careers, performance appraisal, unions, collective bargaining, and occupational safety and health.
- MBA 7800 International Management** 3-0-3
 A survey of international management and global business practices from a cross-cultural perspective. Topics include cross-cultural values, perception, job satisfaction, communication, negotiation, leadership, motivation, ethics, group dynamics, and international social and political constraints on domestic management methods.
- MBA 7860 New Venture Management** 3-0-3
 A study of the creation and management of new ventures. Topics include generating and evaluating new business ideas, developing a business plan, starting a new venture in a corporate or independent setting, and managing the start-up and growth phase of operations. MBA program elective course.
- MBA 7870 Total Quality Management** 3-0-3
 A survey of theories and practices associated with quality management. Topics include current quality management practices, tools and procedures for continuing improvement processes, the team approach to quality management, introduction of quality management practices in an organization, and transfer of quality management skills and procedures to customers and suppliers. MBA program elective course.
- MBA 7900 Strategic Management** 3-0-3
Prerequisite: MBA 7660, MBA 7050, MBA 7030, MBA 7500, MBA 7630, MBA 7300, MBA 7350, and MBA 7450 or their equivalents or permission from the instructor. An advanced course using concepts of strategic management. Integrates the functional areas of an organization, develops analytical skills, and enhances communication skills. Emphasis is given to the formulation and implementation of strategy in world markets.
- MBA 7990 MBA Directed Study** 3-0-3
 Directed graduate research or reading in Business. Proper form must be submitted to the Director of the MBA Program at least two weeks before the beginning of the semester.

Credit notations on the far right are in the pattern 3-0-3. The first number is the number of lecture hours (or equivalent) each week; the second number is the number of laboratory hours (or equivalent) each week; the third number, **in bold**, is the number of semester hours credit.

MFTH: MARRIAGE AND FAMILY THERAPY

- MFTH 6700 Family Sociology** 3-0-3
Also offered as SOCI 6700. The social context of contemporary issues facing families. Includes family history, cross-cultural issues, and research and theory regarding changing gender roles, family violence and abuse, divorce, single-parenting, work families, sexual orientation, non-traditional families and other relevant issues.
- MFTH 6800 Orientation to MFT Practice and Ethics** 3-0-3
Introduces students to the basic epistemological issues in marriage and family therapy, history of the field and current developments, professional socialization and organizations, ethics and values associated with the practice of MFT. Self awareness critical to practice is also addressed.
- MFTH 6990 Supervisor’s Training in Marriage and Family Therapy** 3-0-3
Limited to graduate students who already hold the master’s degree and are pursuing the status of “Supervisor in Training” through the American Association for Marriage and Family Therapy. Graded “Satisfactory” or “Unsatisfactory.” Offered on an individual basis, readings of supervision, styles, systemic family therapy, and ethics for supervision will be explored.
- MFTH 7050 Class, Gender, and Ethnic Issues in Applied Settings** 3-0-3
Also listed as SOCI 7050. Prerequisite: MFTH 6800 or SOCI 7011. An in-depth study of the sensitivities needed by family therapists and other social science practitioners to the issues of social class, gender, and ethnicity. Addresses the interface between professional responsibilities and ethics and the social and political context of treatment. A multicultural perspective is to be developed by each student.
- MFTH 7101 Family Systems Theories** 3-0-3
Prerequisite: MFTH 6800. An in-depth study of family systems theory. Emphasis on the major schools of thought included in a systems analysis of the family and current issues and ideas within family systems discourse.
- MFTH 7102 Interventions in MFT** 3-0-3
Prerequisite: MFTH 7602. A review of the various intervention techniques employed by the major theoretical approaches to MFT. Emphasis on skill development, video and role-playing demonstrations, and linking practice to theory and appropriate treatment goals.
- MFTH 7103 Advanced Theories Seminar** 1-0-1
Prerequisite: MFTH 7102. A series of seminars that allow students to develop in depth understanding of at least two theoretical approaches to MFT. Examples of offerings include structural/strategic, experiential, family of origin, narrative/ constructivism, feminist, solution-oriented. May be repeated.
- MFTH 7200 Research in Marriage and Family Therapy** 3-0-3
Prerequisite: a statistics course. Quantitative and qualitative methods for research design and data analysis in marriage and family therapy. Emphasis on current outcome and process studies and on critical evaluation and application of research data.
- MFTH 7350 Legal Issues in MFT** 1-0-1
Prerequisite: MFTH 6800. Legal responsibilities and liabilities in the practice of family therapy. Addresses issues such as limits to confidentiality, therapist liability, and client privilege. Includes working with the legal system and relevant aspects of family law.
- MFTH 7400 Psychopathology & Pharmacology in MFT** 3-0-3
Prerequisite: MFTH 6800. Psychological, biological, and medical issues in the practice of MFT and an introduction to pharmacology. Emphasis on DSM IV diagnosis within a systemic context and collaboration with other mental health professionals.

- MFTH 7500 Development in the Family System** 3-0-3
Also offered as SOCI 7500. Human growth and development within the family system. Includes theories of individual development, developmental tasks over the family life cycle, normative and non-normative change, processes of divorce and remarriage, and social, economic, and ethnic influences on the family life cycle. Implications for practice emphasized.
- MFTH 7510 Human Sexuality and Gender** 3-0-3
 The cultural, social, physical, psychological, and interpersonal aspects of human sexuality and gender. Includes gender role socialization and the development of gendered identities, sexual functioning and attraction, sexual orientation, and problems related to sex and gender.
- MFTH 7550 Family Stress and Crisis** 3-0-3
 Understanding normative and catastrophic stress, trauma, and crisis across the lifespan from a family systems perspective. Focus on approaches to prevention and intervention with families, agencies, and communities.
- MFTH 7600 Practicum in Marriage and Family Therapy** 0-12-6
Prerequisite: MFTH 7102 and approval of the MFT Faculty. Supervised experience in the practice of marriage and family therapy. Includes practice and live supervision at the MFT Training Clinic as well as experience in community placements. Requires a minimum of 20 hours per week. Must be taken three successive semesters for a total of 500 hours of direct client contact.
- MFTH 7601 Treatment Issues in Family Therapy** 3-0-3
Prerequisite: MFTH 7102. Applications of family systems approaches to the treatment of issues facing families in crisis and transition. Addresses grief and loss, substance abuse, family violence and abuse, child and adolescent behavioral problems, and chronic physical and mental illness. Emphasis on conceptualizing and treatment planning.
- MFTH 7602 Couples and Sex Therapy** 3-0-3
Prerequisite: MFTH 7102. Treatment techniques for intimate relationships. Emphasis on premarital and commitment issues, anger and conflict, gender and intimacy, and techniques for treating sexual dysfunctions.
- MFTH 7650 Special Topics in MFT** 1-0-1
 A rotating series of seminars addressing important contemporary issues in the field of marriage and family therapy. Examples of topics include working with children, working with adolescents, spirituality, family violence, and substance abuse. May be repeated for credit.
- MFTH 7700 Assessment in Marriage and Family Therapy** 3-0-3
Prerequisites: MFTH 7101 and MFTH 7500. How to assess family processes within a developmental context. Models for assessing family functioning and use of individual and family assessment instruments will be included.
- MFTH 7880 Professional Ethics Seminar** 1-0-1
 Addresses professional issues in the workplace. Includes marketing oneself, politics of the workplace, professional licensure and clinical membership, working in interdisciplinary teams, professional wellness, and the ethics, values, and decision-making associated with current practice issues.

Credit notations on the far right are in the pattern 3-0-3. The first number is the number of lecture hours (or equivalent) each week; the second number is the number of laboratory hours (or equivalent) each week; the third number, **in bold**, is the number of semester hours credit.

- MFTH 7980 Internship in Marriage and Family Therapy** 0-2-1 to 0-10- 5
Prerequisite: MFTH 7600. Supervised experience in the practice of marriage and family therapy in a community placement. Requires enough direct contact hours additional to practicum to total 500 before graduating
- MFTH 7990 Directed Study in Family Therapy** 1-0-1 to 3-0-3
Prerequisite: permission of instructor. Specialized study in an area of Marriage and Family Therapy under the direction of a faculty member.
- MFTH 7999 Thesis** 1-0-1 to 6-0-6
Prerequisite: Approval of student's graduate committee. Independent research in an area related to the practice of marriage and family therapy.

MGED: MIDDLE GRADES EDUCATION

- MGED 7000 Special Topics in Middle Grades Education** 1-0-1 to 3-0-3
 Studies of selected topics in middle grades education. Only one special topics course may be used in a program of study.
- MGED 7010 Personal Development of Transescents** 3-0-3
 Emphasizes learning for personal meaning and involvement, focusing upon goals usually classified in affective domain such as self-awareness, value clarification, interpersonal relations, and moral reasoning as related to middle grades child
- MGED 7020 Curriculum in the Middle Grades** 3-0-3
 Reviews the current status and trends in middle grades concept as evidenced in practice. Analysis of middle grades curriculum and its unique construction and planning.
- MGED 7030 Teaching Strategies** 3-0-3
 Designed to provide classroom teacher with theoretical, practical, and research bases for consideration in selection of instructional strategies based on unique function of content as it relates to intellectual needs of middle grades child
- MGED 7040 Evaluation and Assessment** 3-0-3
 Focuses primarily on the basic concepts, methods, and tools of assessment or evaluation. It is designed so professional educators can combine their initial experience and understanding of middle grades child with information regarding their past performances to assess children's abilities.
- MGED 7200 Language Arts Methods for Middle Grades Education** 3-0-3
 A study of expressive and receptive skills of communication in middle grades with emphasis upon teaching extended skills in listening, speaking, reading, and writing.
- MGED 7210 Literature for Interdisciplinary Instruction for Middle Grades** 3-0-3
 A survey of literary forms appropriate for interdisciplinary instruction for middle grades (4-8).
- MGED 7300 Social Studies Methods for Middle Grades Education** 3-0-3
 Trends in social studies, curriculum of middle grades, with emphasis on selection of content, grade placement of concepts and activities, methods of teaching, needed equipment, and community resources.