### A&S Curriculum Changes Fall 2009 (Effective Fall 2010)

**Approved CTW Changes – Added “CTW” to the short titles for the following courses:**

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APPLIED LINGUISTICS & ESL

CHANGES

• AL 3051 TEACHING EFL I (New Description; New Title)
  Teaching English as a Foreign Language I: Methods and Approaches. Prerequisite: AL 3021 or ForL 3021 with a grade of C or higher, or equivalent. This is the first course in a two course sequence designed to prepare individuals who plan on living abroad to serve as competent teachers of English as a foreign language (EFL). It features attention to adaptation to a new culture, historical and contemporary developments in English language teaching, and techniques for teaching listening, speaking, reading, writing, vocabulary & grammar.

• AL 4151 COMMUNICATION ACROSS CULTURES (New Description; New Title)
  Communication across Cultures. Prerequisite: AL 3021 or ForL 3021 with grade of C or higher, or equivalent. This course focuses on learning about the communication of another cultural group to which you do not belong, and learning about effectively communicating with that group. Topics include investigating some of the relationships between language and culture and developing strategies for learning about another culture and communicating across cultures.

• AL 4161 TEACHING EFL II (New Description; New Title)
  Long Title: Teaching English as a Second Language II: Practicum and Classroom Practices. Prerequisites: AL 3051 and AL 3021 or ForL 3021 with grades of C or higher, or equivalent. This is the second course in a two course sequence designed to prepare individuals who plan on living abroad to serve as competent teachers of English as a foreign language (EFL). Its purpose is to complement the relatively broader, and more theoretical, perspective of TEFL I by focusing on classroom practices (e.g., micro-teaching, classroom management, lesson planning) and building intercultural awareness and sensitivities.

ANTHROPOLOGY

CHANGES

• ANTH 4360 METHDS & THEORIES IN BIOL ANTH (Credit Hour Change) – 3 hours
• ANTH 6360 METHDS & THEORIES IN BIOL ANTH (Credit Hour Change) – 3 hours

ART & DESIGN

CHANGES

The Curriculum Committee and the Senate Committee on Academic Programs approved the following changes: 1) Combine the previously distinct undergraduate concentrations of Ceramics (CER) and Sculpture (SCUL) into a single concentration called 3 Dimensional Studies (3DS); 2) Combine the previously distinct undergraduate concentrations of Drawing & Painting (DP) and Printmaking (PRT) into a single concentration called Drawing, Painting & Printmaking (DPP). The associated undergraduate course prefixes have been modified to reflect the new concentrations. (See following chart)
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**DROPS**

The following courses were dropped and were not re-added with new course prefixes:

- CER 3500 FORMS AND SURFACE INSTRUCTION
- CER 4930 INTERNSHIP IN CERAMICS
- PRT 4940 PORTFOLIO I
- PRT 4950 PORTFOLIO II
- PRT 4980 SPECIAL PROBLEMS
BIOLOGY

ADDS

- BIOL 4576 NEUROVIROLOGY 4.0
  Neurovirology. Following an introduction to basic neuroanatomy and neuroimmunology, individual lectures will focus on the diagnosis, treatment, and pathogenesis of several neurologic diseases of virus origin. These include encephalitis, meningitis, chronic inflammatory and demyelinating diseases, HIV/AIDS-associated dementia, peripheral neuropathies, retinitis, and transmissible spongiform encephalopathies caused by prions. The concept of virus latency within the nervous system will be emphasized, as will the possible contributions of viruses or prions toward the onset of Alzheimer’s disease.

- BIOL 6576 NEUROVIROLOGY 4.0
  Neurovirology. Following an introduction to basic neuroanatomy and neuroimmunology, individual lectures will focus on the diagnosis, treatment, and pathogenesis of several neurologic diseases of virus origin. These include encephalitis, meningitis, chronic inflammatory and demyelinating diseases, HIV/AIDS-associated dementia, peripheral neuropathies, retinitis, and transmissible spongiform encephalopathies caused by prions. The concept of virus latency within the nervous system will be emphasized, as will the possible contributions of viruses or prions toward the onset of Alzheimer’s disease.

CHANGES

- BIOL 3800 MOLECULAR CELL BIOLOGY (New Description)
  Molecular Cell Biology. Prerequisites: Biol 2108K or Biol 2800; and Chem 1212K with grades of C or higher. Three lecture hours a week. A survey of biochemistry, molecular genetics, and cell biology including cell structure and chemistry, macromolecular structure and synthesis, protein trafficking, cell motility, signaling, and division. A student may take this class for a grade a maximum of two times.

- BIOL 3810 MOLECULAR CELL BIO LAB (New Description)
  Molecular Cell Biology Laboratory. Prerequisite: Biol 3800 with grade of C or higher, or concurrently. Experiments demonstrating techniques and concepts in molecular cell biology with an emphasis on learning critical thinking through writing. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all biology majors. A student may take this class for a grade a maximum of two times.

CHEMISTRY

ADDS

- CHEM 6230 BIO MED METALS 5.0
  Metals in Biology and Medicine Prerequisite: Chem 6600 or equivalent, with B or higher. Overview of the roles of metals in biology and medicine, focusing on the metal-binding ability of proteins and nucleic acids and their relations to various disease states. Emphasis will be on the mechanism of metal-dependent enzymes. Topics include oxygen activation by metal ions, production of reactive oxygen species (ROS) in biological systems, metal uptake and toxicity, metal-assisted amino acid radical productions, metals in medicine, and
biomineralization. An overview of bioinformatics and the key instrumental methods used in bioinorganic chemistry will be covered.

**CHANGES**

- **CHEM 7010 FOUNDATIONS OF GENERAL CHEM I (New Description)**
  Foundations of General Chemistry I. Prerequisite: Chem 7000 with grade of B or higher, or equivalent. Three lecture hours a week. Principles of atomic structure, chemical bonding, and molecular structure. For secondary school teachers. Can not be used for a graduate degree in chemistry.

- **CHEM 7020 FOUNDATIONS OF GENERAL CHEM II (New Description; Credit Hour Change) 3.0**
  Foundations of General Chemistry II. Chem 7010 with grade of B or higher, or equivalent. Three lecture hours a week. Principles of chemical equilibrium, thermochemistry, acid/base theories, and electro-chemistry. For secondary school chemistry teachers. Can not be used for a graduate degree in chemistry.

**COMMUNICATION**

**ADDS**

- **COMM 6485 HEALTH COMMUNICATION  3.0**
  Health Communication: Provides a comprehensive overview of the major issues, topics, theories and research prevalent in the field of health communication. Topics include interpersonal influence (social support and social network), persuasive message design, and the role of organizations, media, and new communication technology in influencing health attitudes, behaviors, and policy.

- **COMM 6165 SPECIAL PROD. TOPICS   3.0 TO 4.0  LAB FEE: $100**
  Special Production Topics. Prerequisite: Consent of instructor. Graduate faculty and specific tools for this course will change according to the specialized expertise of participating faculty.

- **COMM 6915 SPECIAL PROD. PROJ   3.0 TO 4.0  LAB FEE: $100**
  Special Production Project. Prerequisite: Consent of instructor. Supervised experience in individual projects developed out of the student's professional or vocational interests and responsibilities. There is a fee associated with this course that must be paid on enrollment in the course.

- **COMM 6995 THESIS PRODUCTION  1.0 TO 20.0 LAB FEE $100**
  Thesis Research: There is a fee associated with this course which must be paid upon enrollment.

- **COMM 8140 COMM CAMPAIGNS  3.0**
  Discussed major theories and principles of persuasion and attitude change, message design and dissemination strategies as they relate to communication campaigns. Provides knowledge and skills required to create and evaluate persuasive campaigns in many domains, such as health, politics, social issues, and the environment.
• **COMM 8210 AUDIENCES & CULT STUDS  3.0**
Audiences and Cultural Studies: Situates media audiences within a cultural studies framework to explore various ethnographic and qualitative approaches. Examines the evolution of the cultural studies approach to audiences, from foundational works to current approaches that see audience activity as less about responding to media texts and more about developing multiple interactive practices inspired by and lined with media within the context of class, race, gender and sexuality.

• **FILM 2800 MEDIA INDUSTRY IN CULTURE  3.0**
An overview of how industrial, regulatory, economic, and cultural forces interact in the production, distribution and reception of media texts. Considers the ideological and institutional structures that impact our experience of cultural forms.

• **FILM 4165 SPECIAL PROD. TOPICS  3.0 TO 4.0  LAB FEE:  $100**
Special Production Topics. Prerequisite: Consent of instructor. Undergraduate faculty and special tools for this course will change according to the specialized expertise of participating faculty.

• **FILM 4190 US INDEPENDENT FILM HISTORY  4.0**
US Independent Film History: An examination of the industrial, socio-cultural and formal-aesthetic characteristics of independently produced, distributed and/or exhibited American films. This course also addresses the validity and usefulness of the "independent" label within the present media context.

• **FILM 4200 TELEVISION ANALYSIS  3.0**
Examination of contemporary television's formal-aesthetic traits as well as its shifting position as a cultural, social, political and industrial force. Exploration of how television is being transformed as it converges with other digital technologies.

• **FILM 4915 SPECIAL PROD. PROJECT  3.0 TO 4.0  LAB FEE:  $100**
Prerequisites: Consent of instructor. Supervised experience in individual projects developed out of the student's professional or vocational interests and responsibilities. There is a fee associated with this course that must be paid on enrollment in the course.

• **JOUR 4001 SPORTS JOURNALISM  2.0**
The role of sports in American culture and the ways sports journalists report and write the wide range of issues in the field. Practical instruction in covering high school and college sports as continually breaking news stories; interviewing athletes and coaches; covering and reporting games or matches; and developing and informed voice for opinion writing.

• **JOUR 4905 SPECIAL TOPICS  1.0 TO 4.0  LAB FEE $100**
Prerequisite: Jour 3060 with a grade of C or higher. Only students with an institutional GPA of 2.5 or higher are eligible to enroll in this course.

• **SPCH 4610 RHET OF AMERICAN ISSUES  3.0**
Examining the rhetoric surrounding selected issues in American history, issues that manifest in a variety of forms historically and continue to motivate current debates. Examples include: federal v. state authority; church and state; limits of free speech; pluralism v. American identity; America's role in the world; attitudes toward technology.

• **JOUR 4665 INTERNATIONAL PR  3.0**
International Public Relations. Modern trends in international public relations as practiced by corporations, non-profit organizations and governments in different countries and regions of the world.
CHANGES

- COMM 8120 MEDIA, INDIVIDUALS AND SOCIETY (New Title; New Description)
  Media, Individuals and Society. An advanced seminar on theoretical foundations and traditions that examine mediated communication at the individual and societal levels. Begins with a historical overview and introduction to key issues in the field. Focuses on three broad approaches: marketing and public campaigns, media uses and effects, and cultural studies approaches to audiences.

- JOUR 4900 SPECIAL TOPICS (New Title; Change Prerequisites) - Prerequisite: Jour 3060 with a grade of C or higher. Only students with an institutional GPA of 2.5 or higher are eligible to enroll in this course.

COMPUTER SCIENCE

ADDS

- CSC 4821 FUNDAMENTALS OF GAME DESIGN 4.0
  Fundamentals of Game Design. Prerequisites: CSc 4820 with grades of C or higher. Covers major aspects of game design such as challenges, gameplay, actions, core mechanics, worlds, characters, game balancing, user interfaces, and game genres. 4.000 Credit Hours

- CSC 6821 FUNDAMENTALS OF GAME DESIGN 4.0
  Fundamentals of Game Design. Prerequisites: CSc 4820 with grades of C or higher. Covers major aspects of game design such as challenges, gameplay, actions, core mechanics, worlds, characters, game balancing, user interfaces, and game genres. 4.000 Credit Hours

GEOSCIENCES

ADDS

- GEOG 7112 INTRO TO CLIMATE FOR TEACHERS 4.0
  Introduction to Weather and Climate for Teachers. Three lecture and two laboratory hours a week. Designed to give teachers a basic understanding of weather and climate, with emphasis on spatial processes and human impacts on weather and climate. This course is primarily intended for students in the Masters of Arts in Teaching program in the College of Education who will be secondary science teachers, but it is open to other graduate students as well. Not open to students who have taken Geog 1112 or its equivalent. 4.000 Credit Hours

GERONTOLOGY

ADDS

- GERO 4130 FAMILY, INTIMACY AND AGING 3.0
  Ties that Bind: Family, Intimacy, and Aging. (Same as Soci 4130.) This course examines older adults’ family lives and intimate relationships in social, historical and demographic context. Emphasis is placed on understanding in the type, nature, content and meaning of relationships, and on identifying influential factors, including, for example, gender, race, ethnicity, class, sexual orientation, and health status.
• GER 4700 SPECIAL TOPICS IN GERONTOLOGY  3.0
Special Topics in Gerontology. This course provides an in-depth study of a topic in gerontology that is not currently included in the curriculum. May be repeated if topic differs.

• GER 4800 DIRECTED STUDY IN GERONTOLOGY  1.0 TO 6.0
Directed Study in Gerontology. This course supervised by a gerontology faculty member allows students to gain knowledge and skills in a particular area of gerontology through independent study.

HISTORY

ADDS

• HIST 3795 THE OTTOMAN EMPIRE, 1300 – 1922  4.0
The Rise and Fall of the Ottoman Empire, 1300-1922. Explores the six hundred year history of the Ottoman Empire and its roles in bridging the Medieval and Modern eras in world, Middle Eastern, and Mediterranean/European history. Examines social institutions, economic dynamics, and modernization in the Ottoman Empire, as well as a rival political and social order in Persia, the Safavid Empire. Brings a detailed look at a crucial series of processes that ultimately helped to create the Modern Middle East after World War One.

• HIST 3515 NORTH AFRICA TO 1800  4.0
North Africa and the World to 1800. Political, economic, cultural and social history of North Africa and its interactions with the Mediterranean world, Sub-Saharan Africa and the broader world system. Examines the history of the Berbers alongside the history of Arab and European influences in the region from Roman times to 1800.

• HIST 3690 PIRACY FROM ANCIENT TO MODERN  4.0
Piracy from Ancient to Modern Times. This course examines the history of piracy from the ancient Egyptians to present-day piracy off Somalia and the Straits of Malacca. Particular attention to the “Golden Age of Piracy” in the West from 1640 to 1730 is complemented by the study of piracy in a range of times and places. This comparative approach presents piracy as a series of complex social, political, and economic interactions, asking how transformations in piracy reveal larger patterns of change and continuity in world history. The course also examines how the study of pirates and piracy as a contemporary cultural phenomenon in films and other media can help us to understand how modern and contemporary culture claims and re-presents history.

CHANGES

• HIST 4345 CASE STUDY INTERNATION PRESERV  (New Description)
Case Study in International Preservation. The study of preservation and conservation programs and processes in foreign countries, through lectures, readings, and site visits. Comparison of preservation and public history as it is practiced in foreign programs with the approaches taken in the United States. Field trips abroad are required. May be repeated for credit if topics vary.

• HIST 4990 HISTORICAL RESEARCH – CTW (Prerequisite Change) - Prerequisites: Hist 3000 with grade of C or higher and at least four upper-division history courses, including at least two at the 4000-level.

• HIST 8660 CASE STUDY INTERNATION PRESERV  (New Description)
Case Study in International Preservation. The study of preservation and conservation programs and processes
in foreign countries, through lectures, readings, and site visits. Comparison of preservation and public history as it is practiced in foreign programs with the approaches taken in the United States. Field trips abroad are required. May be repeated for credit if topics vary.

**INTENSIVE ENGLISH PROGRAM**

ADDS

- IEP 0300 TOEFL PREP 2.0
  
  IEP 0300 - TOEFL PREP Test of English for as a Foreign Language Test Preparation. Corequisite: Level 3 or higher in the Intensive English Program (must be enrolled as a full-time or part-time IEP student). In this course, students will learn about the types of questions they can expect to see in all sections of the current TOEFL exam. Class time will be spent identifying the types of responses needed for the various question types, answering questions under timed conditions, and most importantly, clarifying the relationship between the TOEFL tasks with the learning outcomes of the students’ IEP courses. 2.0 credit hours

**MODERN & CLASSICAL LANGUAGES**

ADDS

- GRMN 3313 INTRO GERMAN CULTURAL STUDIES 3.0
  
  Introduction to German Cultural Studies. Prerequisites: Grmn 3311 with a grade of C or higher. A bridge course designed to help students acquire the interpretive skills required to comprehend and analyze increasingly complex cultural texts.

- GERMN 4413 INTRODUCTION TO GERMAN FILM 3.0
  
  Survey of German Film. Prerequisites: Grmn 3312 with grade of C or higher. A careful reading of selected films representative of major directors and movements in German cinema.

- GERMN 6613 GERMAN FILM STUDIES 3.0
  
  German Film Studies. A careful reading of selected films representative of major directors and movements in German cinema.

- SPAN 4467 LAT AM FILM & VIDEO 3.0
  
  Spanish 3307 with grade of C or higher, or equivalent. Latin American and Latino Film and Video. Prerequisite: Spanish 3307 with grade of C or higher, or equivalent. Course fulfills Concentration Requirements. This course introduces students to Latin American film and video. Discussion follows a historic and thematic progression to highlight the significant social and political events during the 20th century and the present.

**CHANGES**

- FORL 6030 PRAC IN FOR LANG ECUCATN (New Description, Remove Prerequisites)
  
  Introduction to world language teaching theories, curriculum design, standard-based education, and planning for instruction. Observation, lesson planning, and supervised teaching with a variety of instructional techniques in P-8 and 9-12 world language classrooms.

- FORL 6128 TCHNG FOREIGN LANG COLLG (New Grade Mode) – S/U

- GRMN 3311 INTRO READING GERMAN LIT (New Title)
- **GRMN 4402 HISTORY OF THE GERMAN LANGUAGE** (New Title; New Description)
  Prerequisite: Grmn 3302 with grade of C or higher. An introduction to basic linguistics and the historical development of German.

- **GRMN 4411 SURVEY OF GERMAN LIT** (New Title; New Description)
  Survey of German Literature. Prerequisite: Grmn 3312 with grade of C or higher. A careful reading of selected texts representative of major writers and movements in German literature.

**DROPS**

- **GRMN 3312 INTRO READING GERMAN LIT II**
- **GRMN 4412 SURVEY OF GERMAN LIT II**
- **GRMN 6621 LING STRUC OF GERMAN LANG**

**MIDDLE EAST INSTITUTE**

**ADDS**

- **ARBC 4890 INDEPENDENT STUDY 1.0 TO 4.0**
  Independent Study in Arabic. Prerequisite: Consent of instructor. Advanced reading course in Arabic tailored to subject interests of students.

- **HBRM 4890 INDEPENDENT STUDY 1.0 TO 4.0**
  Independent Study in Modern Hebrew. Prerequisite: Consent of instructor. Advanced reading course in Modern Hebrew tailored to subject interests of students.

- **MES 4870 HONORS THESIS: RESEARCH 1.0 TO 6.0**
  Honors Thesis: Research Prerequisites: consent of the instructor and Honors Program director. Readings or research preparatory to honors thesis.

- **MES 4880 HONORS THESIS: WRITING 1.0 TO 6.0**
  Honors Thesis: Writing. Prerequisites: MES 4870, consent of the instructor and Honors Program director. Writing or production of honors thesis or project.

**MATHEMATICS & STATISTICS**

**ADDS**

- **MATH 7610 SPECIAL PROB AND SOLVING STRAT 3.0**
  Special problems and solving strategies. Prerequisite: Math 2212 with a grade of B or better or permission from the instructor. The course will concentrate on developing solving strategies of difficult mathematical problems which require creativity and profound understanding of mathematics. Among topics to be covered: induction and pigeonhole principle, arithmetic, algebra, summation of series, intermediate real analysis, inequalities. Crosslisted with the existing Math 3610.

- **STAT 8801 STATISTICAL CONSULTING II 1.0**
  Statistical Consulting II. Prerequisite: Stat 8800 or instructor's approval. Credits: 1 credit. Description: The objectives of Statistical Consulting Practicum are for students to develop skills needed by a successful statistical consultant, such as the effective collaboration skills with researchers in other disciplines, the communication
skills, both written and verbal. In the practicum phase, students will be exposed to more realistic statistical and scientific problems.

**CHANGES**

- **MATH 8220 ABSTRACT ALGEBRA I** (New Title; New Description)
  Abstract Algebra I. Prerequisite: Math 4442/6442 with a grade of C or higher. Group actions and Sylow Theorems, solvable and nilpotent groups, algebraic, separable, and normal field extensions, symmetric polynomials, Galois theory.

- **STAT 8800 STATISTICAL CONSULTING I** (New Title; New Description; Credit Hour Change) – 1.0
  Statistical Consulting I. Prerequisite: graduate students who have taken at least one-year courses in statistics. Credits: 1 credit. Description: The objectives of Statistical Consulting Practicum are for students to develop skills needed by a successful statistical consultant, such as the effective collaboration skills with researchers in other disciplines, the communication skills, both written and verbal. In the orientation phase, a number of lectures will cover topics on consulting philosophy, effective problem identification, consulting session management and positive interaction with clients. In the practicum phase, students will be exposed to realistic statistical and scientific problems.

**MUSIC**

**ADDS**

- **MUS 1062 UNIVERSITY BAND** 1.0
  Study, rehearsal, and concert performance of band repertoire representing various periods and styles. Open to music majors and non-majors. Prior playing experience and music reading ability required. May be repeated for credit. 3 credit hours. No audition required but the ability to read music and perform with proficiency on an instrument used in the ensemble is required.

- **MUS 1063 MARCHING BAND** 1.0 TO 3.0
  Marching Band. Repertoire, performance, and technique for enhancing school spirit and university athletic activities. Open to all university students who can perform at required level on an appropriate instrument/visual equipment. Audition required. 1-3 Credit Hours

- **MUS 3062 UNIVERSITY BAND** 1.0
  Study, rehearsal, and concert performance of band repertoire representing various periods and styles. Open to music majors and non-majors. Prior playing experience and music reading ability required. May be repeated for credit. 3 credit hours. No audition required but the ability to read music and perform with proficiency on an instrument used in the ensemble is required.

- **MUS 3063 MARCHING BAND** 1.0 TO 3.0
  Marching Band. Repertoire, performance, and technique for enhancing school spirit and university athletic activities. Open to all university students who can perform at required level on an appropriate instrument/visual equipment. Audition required. 1-3 Credit Hours

- **MUS 7062 UNIVERSITY BAND** 1.0
  Study, rehearsal, and concert performance of band repertoire representing various periods and styles. Open to music majors and non-majors. Prior playing experience and music reading ability required. May be repeated for credit. 3 credit hours. No audition required but the ability to read music and perform with proficiency on an instrument used in the ensemble is required.
• MUS 7063 MARCHING BAND 1.0 TO 3.0
Marching Band. Repertoire, performance, and technique for enhancing school spirit and university athletic activities. Open to all university students who can perform at required level on an appropriate instrument/visual equipment. Audition required. 1-3 Credit Hours

CHANGES

New prerequisites were added to all junior and senior level Applied Music courses (i.e. APXX 3001 and APXX 4001).

• APXX 3001 – New Prerequisite: APXX 2002 with a grade of C or better; MUS 1450 with a grade of C or better; MUS 1550 with a grade of C or better; MUS 1720 with a grade of C or better; and three satisfactory semesters of MUS 1100.

• APXX 4001 – New Prerequisite: APXX 3002 with a grade of C or better; MUS 2450 with a grade of C or better; MUS 2550 with a grade of C or better; MUS 2720 with a grade of C or better; and five satisfactory semesters of MUS 1100.

NEUROSCIENCE

ADDS

• NEUR 8790 TOPICS IN NEUROSCIENCE 1.0
This course provides in depth training on a subject matter in neuroscience. Includes learning to read and critique scientific literature. May be repeated if topics vary. Prerequisite: consent of instructor.

DROPS

• NEUR 8910 TOPICS IN NEUROSCIENCE

PHYSICS & ASTRONOMY

ADDS

• PHYS 1000 GATEWAY TO PHYSICS 2.0
Gateway to Physics. Two lecture hours a week. This is a seminar course intended for anyone curious about physics and its relevance to contemporary life. No background in physics is necessary. This course is appropriate for pre-professional students in education, medicine, law, and business, as well as students pursuing degrees in natural sciences, social sciences, humanities, music, and fine arts. It is required for physics majors. The course engages a broad spectrum of resources and experiential opportunities (e.g. popular science books & articles, videos, websites, lab tours, field trips, service learning opportunities, and guest presenters) to explore compelling interconnections between physics and other disciplines and career interests. Course topics may include Physics and the Human Body, Physics and the Nano-scale, Physics and the Cosmos, Physics and Technology, Physics and Art, and Chaos & Complexity.

• PHYS 4710 FUNCTIONAL NEUROIMAGING 3.0
Functional Neuroimaging. Prerequisite: consent of instructor. Three lecture hours a week. Foundations of physics principles applied to brain processes, different imaging modalities, and neuroimaging data analysis methods. Topics include physiological basis of functional neuroimaging, physics of different imaging
modalities (fMRI, PET, EEG, MEG, fNIR, TMS), experimental design, neuroimaging data analysis, and applications in cognitive neuroscience. This course is appropriate for students majoring in physics, chemistry, biology, neuroscience, psychology, mathematics, statistics, and computer science with an interest in the use of functional neuroimaging.

- PHYS 6710 FUNCTIONAL NEUROIMAGING 3.0
  Functional Neuroimaging. Prerequisite: consent of instructor. Three lecture hours a week. Foundations of physics principles applied to brain processes, different imaging modalities, and neuroimaging data analysis methods. Topics include physiological basis of functional neuroimaging, physics of different imaging modalities (fMRI, PET, EEG, MEG, fNIR, TMS), experimental design, neuroimaging data analysis, and applications in cognitive neuroscience. This course is appropriate for students majoring in physics, chemistry, biology, neuroscience, psychology, mathematics, statistics, and computer science with an interest in the use of functional neuroimaging.

- PHYS 7000 GATEWAY TO PHYSICS 2.0
  Gateway to Physics. Two lecture hours a week. This is a seminar course intended for anyone curious about physics and its relevance to contemporary life. No background in physics is necessary. This course is appropriate for pre-professional students in education, medicine, law, and business, as well as students pursuing degrees in natural sciences, social sciences, humanities, music, and fine arts. It is required for physics majors. The course engages a broad spectrum of resources and experiential opportunities (e.g. popular science books & articles, videos, websites, lab tours, field trips, service learning opportunities, and guest presenters) to explore compelling interconnections between physics and other disciplines and career interests. Course topics may include Physics and the Human Body, Physics and the Nano-scale, Physics and the Cosmos, Physics and Technology, Physics and Art, and Chaos & Complexity.

- PHYS 7111 INTRO TO PHYSICS FOR TEACHER I 4.0
  Introduction to Physics for Teachers I. Prerequisite: consent of instructor. Algebra at the level of Math1111 and trigonometry at the level of Math1113 is strongly advised. Three lecture and two laboratory hours a week. Mechanics, heat, and wave motion. This course is primarily intended for students in the Masters of Arts in Teaching program in the College of Education who will be secondary science teachers, but it is open to other graduate students as well.

- PHYS 7112 INTRO PHYSICS FOR TEACHER II 4.0
  Introductory Physics for Teachers II. Prerequisites: Instructor consent. Three lecture and two laboratory hours a week. Electricity, light, modern physics. This course is intended for students in the Masters of Arts in Teaching program in the College of Education, but it is open to other graduate students as well.

CHANGES

- ASTR 3500 QUANTITATIVE ASTRONOMY (New Title; New Description)
  Quantitative Astronomy. Prerequisite: Phys 2212K with grade of C or higher, or consent of instructor. Four lecture hours a week. An intermediate-level course that uses the tools of calculus-based physics to explore the properties of planets, stars, galaxies, and the Universe.

- ASTR 4000 FUNDAMENTALS OF ASTROPHYSICS (New Description; Prerequisite Change)
  Fundamentals of Astrophysics. Prerequisites: Phys 3401 with a grade of C or higher. Three lecture hours a week. Application of mechanics, electricity and magnetism, atomic and nuclear physics, and special relativity to the solution of astrophysical problems.
• ASTR 4100 ASTROTECHNIQS/INSTRUMENTATION (New Description; Prerequisite Change)
Astronomical Techniques and Instrumentation. Prerequisite: Phys 2212K with grade of C or higher, or consent of instructor. Three lecture hours a week. Fundamental and practical application of imaging, spectroscopy, photometry, astrometry, interferometry, and current developments in detector technology and telescope design.

• PHYS 1111K INTRODUCTORY PHYSICS I (New Description; Prerequisite Change)
Introduction to Physics I. Prerequisite: Algebra at the level of Math1111 and trigonometry at the level of Math1113 is strongly advised. Three lecture and two laboratory hours a week. Mechanics, heat, and wave motion. Phys 1111K and Phys 1112K meet the science requirement for the B.A., the B.B.A., and the B.S. in Education degrees, and the physics requirement for students in the biological and life sciences. Designed primarily as a terminal sequence. Most natural science majors should enroll in Phys 2211K and Phys 2212K. (Note: Requires BOR approval)

• PHYS 1112K INTRODUCTORY PHYSICS II (New Description; Prerequisite Change)
Introductory Physics II. Prerequisite: Phys1111K with grade of D or higher. Three lecture and two laboratory hours a week. Electricity, light, modern physics. Phys 1111K and Phys 1112K meet the science requirement for the B.A., the B.B.A., and the B.S. in Education degrees, and the physics requirement for students in the biological and life sciences. Most natural science majors should enroll in Phys 2211K and Phys 2212K. (Note: Requires BOR approval)

• PHYS 3401 MODERN PHYSICS I (New Description; Prerequisite Change)
Modern Physics I. Prerequisites: Phys 2212K and Math 2215 with grade of C or higher. Four lecture hours a week. Special relativity, quantum optics, wave and particle duality, Bohr theory, Schrodinger's quantum mechanics, one-electron atom, spin, and angular momentum.

• PHYS 4410 NUCLEAR AND PARTICLE PHYSICS (New Title; Prerequisite Change)
Nuclear and Particle Physics. Prerequisite: Phys 3401 with grade of C or higher. Three lecture hours a week. Properties of nuclei; nuclear models; nuclear reactions and radioactive decay processes; properties of elementary particles, their symmetries and interactions; standard model of elementary particles.

• PHYS 4810 QUANTUM MECHANICS (New Title; Prerequisite Change)
Quantum Mechanics. Prerequisites: Phys 3401 and Math 3260 with grades of C or higher, or consent of instructor. Three lecture hours a week. Schrodinger's theory of quantum mechanics; solutions of Schrodinger's equation; perturbation theory; one-electron atoms; magnetic moments, spin, and relativistic effects; identical particles; multi-electron atoms.

• PHYS 4950 SENIOR RESEARCH ( New Description; Prerequisite Change)
Senior Research. Prerequisites: Phys 3401 with a grade of C or higher. Training in the techniques of basic research in physics and application of these techniques to research projects of current importance. May be repeated for a maximum of three credit hours.

Minimum grade for prerequisite courses was changed from a D to a C for the following courses:

• ASTR 3500 QUANTITATIVE ASTRONOMY
• PHYS 3300 ADVANCED PHYSICS LABORATORY
• PHYS 3402 MODERN PHYSICS II
• PHYS 3500 ELECTRONICS
• PHYS 3800 OPTICS
• PHYS 3850 STATISTICAL & THERMAL PHYSICS
• PHYS 4600 CLASSICAL MECHANICS
PHYS 4700 ELECTRICITY AND MAGNETISM
PHYS 4910 SOLID STATE PHYSICS

POLITICAL SCIENCE

ADDS

- POLS 4935 URBAN POLITICS INTERNSHIP 1.0 TO 6.0
  The purpose of this internship course is to give participating students some practical experience in supervised work with an urban governing or policy development/urban service delivery agency. Such organizations will include any of the 63 municipalities or 10 counties in the Atlanta Regional Commission’s ten-county metropolitan area, any government special districts (such as public school districts, MARTA, water management districts, etc.), or non-profit agencies specializing in community development issues.

- POLS 8299 NEW CONTROVERSIES IN COMP POL 3.0
  Prerequisite: POLS 8200. Course focuses on recent (and, in many cases, award winning) books in Comparative Politics. It has multiple goals: 1) to read a series of excellent recent books, and, by doing so, to fully engage some of the major theoretical innovations and currents in the field; 2) to engage some important theoretical arguments (often times in dialogue with each other); and 3) to provide an opportunity for discussing what makes a good book.

- POLS 8480 TRANSITIONAL JUSTICE 3.0
  Transitional Justice and the Politics of Memory. The course will provide a philosophical and theoretical framework for thinking about memory and transitional justice. It focuses on specific transitional justice institutions such as the Nuremberg Trials, the South African Truth and Reconciliation Commission, the International Criminal Tribunals for the former Yugoslavia and Rwanda, the International Criminal Court, as well as selected domestic and hybrid trials and truth commissions in many regions of the world.

- POLS 8485 ETHICS OF INTL RELATIONS 3.0
  Course provides a survey of contemporary ethical questions in international relations. Among the questions considered: What significance do ethical considerations have in international affairs? Is ethical conduct in international relations possible, in the world of nation states with national interests and power politics? And how, in normative terms, should we evaluate international acts? Focus is on contemporary debates about just and unjust war, use of force, humanitarian intervention, treatment of civilians in war, human rights, democratization, and development.

- POLS 8510 THEORIES ON DEMOCRACY 3.0
  Theories on Democracy. What is Democracy? This course considers a variety of contending answers to this question. In particular, we will review representative, deliberative, agonistic and radical theories of democracy – and chart disagreement on the meaning of democracy both within and across these approaches.

- POLS 8580 AMERICAN POLITICAL THOUGHT 3.0
  Course considers three major themes in American political thinking – conceptions of self-government, the kinds of values conducive to a democratic community, and how religion helps or hinders democracy.

DROPS

- POLS 6520 THEORIES ON DEMOCRACY
- POLS 6570 AMERICAN POLITICAL THOUGHT
**PSYCHOLOGY**

**ADDS**

- **PSYC 4650 PSYCHOLOGY: SPECIAL TOPICS 1.0 TO 6.0**
  Topics presented by special request

- **PSYC 6650 PSYCHOLOGY: SPECIAL TOPICS 1.0 TO 6.0**
  Special Topics in Psychology. Prerequisite: permission of the instructor

- **PSYC 9900L SPEC TOP RES LANG & LIT 1.0 TO 3.0**
  Special Topics: Research in Challenges of Acquiring Language & Literacy Cross Listed with COE: EXC 9900/EPSY 9900 This course is offered with rotating topics related to research in challenges of acquiring language and literacy. The design and methodologies of research conducted in these areas will be examined.

**CHANGES**

- **PSYC 1100 INTRO TO BIOPSYC (New Title; New Description)**
  Introduction to Biological Psychology. Explores the relationships of physiology and environment with behavior and mental processes. Examines the role of evolution through natural selection in shaping nervous system design and behavior, and the interplay of genetics and environment in both physiological and behavioral development. Emphasizes lower-level mechanisms of sensation and perception, motor action, and hormone effects, as well as higher-level processes involved in emotion, cognition, language, and social behavior. These topics are examined in both humans and nonhuman animals.
  *(Requires BOR approval)*

**RELIGIOUS STUDIES**

**ADDS**

- **RELS 4100 RELS STUDY ABROAD 3.0**
  Religious Studies Study Abroad. No prerequisite. Provides students with opportunities to study religious life and practice outside of the United States. Includes travel to selected sites for visitation and study led by faculty familiar with the site's history and religious significance. Also includes direct supervision of students' on-the-ground experience of religious life around the globe. Open to majors and non-majors. No foreign language necessary; instruction will be in English. Enrollment must be approved by program director.

- **RELS 6100 RELS STUDY ABROAD 3.0**
  Religious Studies Study Abroad. No prerequisite. Provides students with opportunities to study religious life and practice outside of the United States. Includes travel to selected sites for visitation and study led by faculty familiar with the site's history and religious significance. Also includes direct supervision of students' on-the-ground experience of religious life around the globe. Open to majors and non-majors. No foreign language necessary; instruction will be in English. Enrollment must be approved by program director.

- **RELS 4675 CHRISTIANITY AND DEMOCRACY 3.0**
  Christianity and Democracy. No prerequisites. Examination of the complex relationship between Christianity and democracy in theory and in practice. Exploration of such questions as: Is there a necessary link between Christianity and democracy? Do democratic values conflict with Christian commitments? Must religious commitments be set aside when citizens participate in democratic deliberation?
• RELS 6675 CHRISTIANITY AND DEMOCRACY  3.0
Christianity and Democracy. No prerequisites. Examination of the complex relationship between Christianity and democracy in theory and in practice. Exploration of such questions as: Is there a necessary link between Christianity and democracy? Do democratic values conflict with Christian commitments? Must religious commitments be set aside when citizens participate in democratic deliberation?

WOMEN’S STUDIES

ADDS

• WST 4240 SEXUALITY AND GENDER IN ASIA  3.0
Sexuality and Gender in Asia. Prerequisites: None. (Same as WSt 6240). Students will be exposed to studies of sexuality and gender in Asia from the perspective of feminist theory, queer theory, LGBT studies, and women's, gender, and sexuality studies. Materials explored include academic texts, memoir, fiction, and film. No prior course on Asian Studies is required. The course will be particularly useful for majors/minors in Women's Studies, anthropology, and Asian Studies.

• WST 6240 SEXUALITY AND GENDER IN ASIA  3.0
Sexuality and Gender in Asia. Prerequisites: None. (Same as WSt 6240). Students will be exposed to studies of sexuality and gender in Asia from the perspective of feminist theory, queer theory, LGBT studies, and women's, gender, and sexuality studies. Materials explored include academic texts, memoir, fiction, and film. No prior course on Asian Studies is required. The course will be particularly useful for majors/minors in Women's Studies, anthropology, and Asian Studies.
PRE-EDUCATION CONCENTRATION

UNDERGRADUATE

1) Modified all departments with pre-education broad field social science concentration to state that students must take their courses from two or more of the following disciplines: economics, geography, history, behavioral sciences or education.

BIS

UNDERGRADUATE

1) Modified course requirements for Area G.3 and Area H.1 under Arts Administration.
2) Modified credit hour requirement for Italian Studies, under Area G.2.
3) Expanded course offerings and modified electives for Areas G and J in Theatre – Design and Production.
4) Expanded course offerings for Area G in Theatre – Performance.

ANTHROPOLOGY

UNDERGRADUATE

1) Changed ANTH 4360 from 4 to 3 credit hours.
2) Changed number of allied fields required for pre-education concentration from 3 to 2.

GRADUATE

1) Changed ANTH 6360 from 4 to 3 credit hours.
2) Added ANTH 6370 to fulfill methods requirement.

APPLIED LINGUISTICS & ESL

UNDERGRADUATE APL

1) Changed the TEFL certificate (replacing AL 4151 with AL 3101) based on feedback from students and teachers that grammar should be a required course.
2) Submitted title changes for AL 3051, AL 4151 and AL 4161.
3) Added the statement "see department for details" for CTW requirements (Allows for flexibility in changing requirements).
4) Removed one course that is no longer being offered (AL 4980).

UNDERGRADUATE ESL

1) Corrected inaccuracies in current course offerings in program summary.

UNDERGRADUATE IEP

1) Corrected minor errors in program description.
GRADUATE APL

1) Added AL 8480: CLASSROOM PRACTICES IN TEACHING ESL as an alternative to AL 8900: PRACTICUM IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES in order to give more flexibility to students completing the MA.

ART & DESIGN

UNDERGRADUATE

1) Updated the course prefixes and course listings to reflect the new 3DS and DPP concentrations.

BIOLOGY

UNDERGRADUATE

1) Removed the old Area H since it is now present as Area I.

CHEMISTRY

GRADUATE

1) Revised contacts to reflect new Associate Director of Graduate Studies.
2) Expanded biophysical subdivision to include computational curricular offerings.
3) Modified required research skills and course requirements.

ENGLISH

UNDERGRADUATE

1) Revised course listings within concentrations
2) Corrected typos and incorrect information

GRADUATE

1) Revised program requirements for MA in Lit Studies involving the distribution of credit hours in pre and post 1800 course work.

GERONTOLOGY

UNDERGRADUATE

1) Updated program contact list.
2) Revised program admissions statement.

GRADUATE

1) Updated program contact list.
2) Revised admissions requirements for graduate certificate program.

HISTORY
UNDERGRADUATE

1) Revised prerequisite details for HIST 4990 to ensure majors take more research-oriented, 4000-level classes prior to entering the senior research seminar.

GRADUATE

1) Revamped course offerings and requirements for MA and PhD programs.

MATHEMATICS & STATISTICS

GRADUATE

1) Updated program contact list.

MODERN & CLASSICAL LANGUAGES

UNDERGRADUATE SPANISH

1) Modified list of courses that count towards the CTW requirement (needs approval of CTW office).

GRADUATE SPANISH

1) Removed concentrations in Literature and Language, Pedagogy & Applied Linguistics (needs approval from CAP).

MUSIC

UNDERGRADUATE

1) Revised contact list.
2) Updated program summary and general description.
3) Changed program admission requirements.

GRADUATE

1) Corrected course listings in the Jazz Studies concentration.
2) Changed the ordering of concentrations in the program summary so they are alphabetized.

PHILOSOPHY

UNDERGRADUATE ETHICS

1) Added PHIL 3740: BIOMEDICAL ETHICS to the list of possible courses for the minor.

UNDERGRADUATE PHILOSOPHY

1) Revised description of department strengths to maintain accuracy.
2) Corrected typo regarding the number of hours required in Area G.

PHYSICS & ASTRONOMY
UNDERGRADUATE ASTRONOMY

1) Revised contact list.

UNDERGRADUATE PHYSICS

1) Added PHYS 1000: GATEWAY TO PHYSICS to required intro level course work.
2) Removed 2 math courses from courses required of all majors to allow additional flexibility for the concentrations.
3) Modifying required courses for concentrations.
4) Moving 6 credit hours out of required course work into concentrations, allowing to standardize each concentration at 21 hours and adding flexibility to concentrations.

POLITICAL SCIENCE

GRADUATE

1) Modified admissions requirements to formalize the admission of students into the PhD program who do not already have an MA in hand.

SOCIOLOGY

UNDERGRADUATE

1) Revised contact list.
2) Modified information regarding sociology club contact.
3) Updated information regarding advisement opportunities for students minoring in Sociology.
4) Added clarification about when required courses are offered.
5) Added a number of options to Area F electives to utilize a diverse amount of fields.

GRADUATE

1) Updated course number for SOCI 9230 Public Health

WOMEN’S STUDIES

GRADUATE

1) Implemented a policy regarding grades of C- or below for MA program.