AFRICAN AMERICAN STUDIES

ADD

- **AAS 3010 NARRATIVES OF RACE, GENDER & SEX 3.0**
  Narratives of Race, Gender and Sexuality: Quare Readings. Focuses on recognizing and employing various reading practices and themes of intersectionality within a number of literary narratives.

  Curriculum Committee notes: Consultation with Sociology requested. Should this course be CTW?

- **AAS 4010 SERVICE LEARNING IN AAS 3.0**
  Service Learning in the African American Community. An experiential course where students develop civic responsibility and utilize their skills and talents to the service of community organizations with the specific goal of helping to empower them to address African American and broader community needs.

- **AAS 4105 RACE & HEALTH 3.0**
  Race & Health. Critical exploration of the frameworks used to explain racial differences in health in the African-American community through the examination of contemporary health issues

- **AAS 4110 BLACK WOMEN & HEALTH 3.0**
  Black Women & Health. Examines the intersections of race, gender, and health with a critical focus on the health experiences of women in Africa, the Caribbean, and the United States.

- **AAS 4330 BALCK ARTS MOVEMENT 3.0**
  The Black Arts Movement. This course explores and examines the ideas, major artists and institutions, artistic practices, political context and enduring legacy of the most important multi-discipline artistic movement in African American history.

- **AAS 6016 AFRICAN AMERICAN EDUCATION 3.0**
  Critical pedagogy and African American Education. Prerequisite: Completion of AAS 6000 and 6005 with a grade of B or better. This course will explore the principles and
practices of critical pedagogy theory as it has developed both internationally and in the United States, with a focus on application in the historical and current education in the African American community and what it means to teach for freedom.

**CHANGE**

- **AAS 3975 CONCEPTS/THEORIES IN A-AS (Change prerequisites)**
  Current Prerequisites: AAS 2010
  Proposed Prerequisites: AAS 1140, AAS 2010, and AAS 3120 all with a minimum grade of C or instructor approval.

- **AAS 4980 SEMINAR & PRACTICUM IN AAS-CTW (Change prerequisites)**
  Current Prerequisites: Six hours in African-American Studies
  Proposed Prerequisites: AAS 3975 and AAS 3980 both with a minimum grade of C.

- **AAS 6022 AFRICAN AMERICAN URBAN HISTORY (Change Description)**
  Current Description: The New African American Urban History and the Intervention of the Black Southern Diaspora. Prerequisites: Must be a graduate student with a sharp focus on research and writing. This graduate course seeks to explore the trends, tensions, and shifts that have emerged in how we study African Americans in urban spaces. It will introduce students to the historiographical literature, main themes, methodological approaches and techniques, questions, and historical interpretations to the urban experiences of African Americans.

  Proposed Description: The New African American Urban History and the Intervention of the Black Southern Diaspora. Prerequisites: Must be a graduate student with a sharp focus on research and writing. This graduate course seeks to explore the trends, tensions, and shifts that have emerged in how we study African Americans in urban spaces. It will introduce students to the historiographical literature, main themes, methodological approaches and techniques, questions, and historical interpretations to the urban experiences of African Americans.

**APPLIED LINGUISTICS**

**ADD**

- **IEP 0350 SPECIAL TOPICS IN ENGLISH PROFICIENCY TEST PREPARATION 3.0**
  Special Topics in English Proficiency Test Preparation. The course develops students’ test taking skills for the TOEFL and/or IELTS examination.
ANTHROPOLOGY

ADD

- ANTH 4114/6114 LANGUAGE AND SOCIAL JUSTICE 3.0
  
  **Title:** Language and Social Justice  
  **Prerequisites:** Students wishing to enroll in this course must have completed either A or B: A. ANTH 2040 or B. i. ANTH 2020 and ii. AL/ForL 2101 or AL/ForL 2102  
  **Cross-listed Courses:** ANTH6114

  **Summary of Course Activities/Topics:** Anthropology, broadly understood, is the social scientific study of what it means to be human. Linguistic anthropologists study the ways that language and culture are interconnected with one another, especially discussing the links between linguistic and social variation. This course focuses on the linguistic anthropological study of inequality and questions of social justice that arise. From the work of translation in institutional settings that often falls to bilingual children of immigrants to the marked evaluation of African-American English, students will explore how language is integral in processes of exclusion, stigma, and oppression. The course will include projects where groups of students choose a particular issue of language and social justice about which to learn. Groups will create a digital portfolio in which they create an intervention based on a close reading of relevant ethnographic and theoretical materials. Topics covered in the course will include: (1) How racial, gendered, and class-based identities intersect with one another. (2) How these culturally specific, intersectional categories are constituted through language. (3) How these culturally specific, intersectional categories are challenged through language. (4) How linguistic and cultural exclusion occur. (5) How processes of exclusion are experienced by members of marginalized groups. (6) How racism is often unknowingly reproduced through normative ways of speaking. (7) How to document and theorize issues of language and social justice. (8) How to create an activist intervention on a pressing issue of language and social justice. Student fee: none  

  **Target student groups:** Anthropology majors/minors, Applied Linguistics majors

  **Curriculum Committee notes:** Requested a shorter course description.

CHANGE

- ANTH 4040/6040 GENDER/RACE/CLASS IN COMPLEX SOCIETIES (Change title, Change Description)
  
  **Proposed Title:** Race, Class, and Gender in Global Perspective

  **Current Description:** Gender, Race, and Class in Complex Societies. (Same as WGSS 4040.) Prerequisite: Anth 2020 with grade of C or higher, or consent of instructor. Experiential learning in the urban setting through direct exposure to and experience in an ethnic community. Informed awareness of the knowledge, attitudes, and practices of ethnic communities within the community and larger society.
Proposed Description: Exploration of the various ways that perceptions and designations of race, class, and gender intersect with each other and shape the human experience. This includes an analysis of how categories of class, ethnicity, and gender affect daily life for people in multiethnic, stratified societies, particularly in terms of how inequities of access to wealth, power, and resources have emerged on global and local levels. Structural violence is an important theme of many of the readings in the class. The idea of race as a social construct rather than a biological phenomenon is another key topic. We will examine how gender identity and gender roles are shaped by culture. Globalization and immigration, and their relationship to gender, race, and class, are foci of the latter part of the course.

Curriculum Committee notes: Requested a shorter course description.

ART & DESIGN

CHANGE

- AE 4400/6400 MEDIA, TECHNOLOGY, AND VISUAL PRESENTATION (Change Credit Hours)
  Current Credit Hours 4.0
  Proposed Credit Hours 3.0

- AH 4980/6980 SPECIAL PROBLEMS (Change Credit Hours)
  Current Credit Hours 3.0
  Proposed Credit Hours 1.0-6.0

- ID 4400 CAD III (Change Credit Hours)
  Current Credit Hours 3.0
  Proposed Credit Hours 2.0

- ID 4940 INTERIOR DESIGN PORTFOLIO I (Change Credit Hours)
  Current Credit Hours 2.0
  Proposed Credit Hours 3.0

- PHOT 3000 PHOTOGRAPHY I (Change Title, Change Description)
  Proposed Title: Intro to Photography

  Current Description: Photography I. Prerequisites: Art 1010 and 1020 with grades of C or higher. Introduction to photography within a fine arts context. Operation of the 35mm
camera, black-and-white film exposure and development, silver-gelatin print processing, and archival presentation. Lab Fee: $125.00.

Proposed Description: Introduction to Photography. Prerequisites: Art 1010 and 1020 with grades of C or higher. Introduction to photography within a fine arts context. Operation of the DSLR camera and lenses. Lab Fee: $125.00. 3.000 Credit hours

- PHOT 3010 PHOTOGRAPHY II (Change Title, Change Description)
  Proposed Title: Film and Darkroom

  Current Description: Photography II. Prerequisite: Phot 3000 with grade of C or higher. Intermediate-level course emphasizing technical competency and alternative ways of making photographic imagery. Medium format cameras and introduction to a variety of black-and-white films and papers. Lab Fee: $125.00.

  Proposed Description: Film and Darkroom. Prerequisite: Phot 3000 with grade of C or higher. Intermediate-level course emphasizing technical competency with 35mm and medium format cameras, black-and-white film exposure and development, silver-gelatin print processing, and archival presentation. Lab Fee: $125.00.

- PHOT 3100 ALTERNATIVE PROCESSES (Change Title, Change Description)
  Proposed Title: Alternative Photographic Practice

  Current Description: Alternative Processes. Prerequisite: Phot 3010 with grade of C or higher. Printing processes include cyanotype, Van Dyke brown, Kwik Print, palladium, Liquid Light. Experimentation and independent research emphasized. Lab Fee: $125.00.

  Proposed Description: Alternative Photographic Practice. Prerequisite: Phot 3010 with grade of C or higher. Photographic printing processes from the earliest days of photography to the latest advances in digital media. Experimentation and independent research emphasized. Lab Fee: $125.00.

- PHOT 3200 COLOR AND PHOTOGRAPHY (Change Title, Change Description)
  Proposed Title: Color and Light

  Current Description: Color Photography. Prerequisite: Phot 3010 with grade of C or higher. Color photography techniques and aesthetic elements of color. Negative and positive films, negative print processing. Lab Fee: $125.00.
Proposed Description: Color and Light. Prerequisite: Phot 3010 with grade of C or higher. Color photography techniques, aesthetic elements of color, and introduction to natural and artificial light sources. Lab Fee: $125.00.

- PHOT 3300 STUDIO PHOTOGRAPHY (Change Title, Change Description)
  Proposed Title: Studio Lighting & Large Format

  Current Description: Studio Photography. Prerequisite: Phot 2100 or 3010 with grade of C or higher. Studio practice within fine arts context. Large format cameras, use of studio lighting and equipment. Lab Fee: $125.00.

  Proposed Description: Studio Lighting & Large Format. Prerequisite: Phot 3010 with grade of C or higher. Studio practice within a fine arts context. Large format cameras, advanced studio lighting techniques. Lab Fee: $125.00.

- PHOT 3910/6910 HISTORY OF PHOTOGRAPHY (Change Title, Change Description)
  Proposed Title: Photo History Seminar

  Current Description: History of Photography. History of photography from early nineteenth century to present; technical and aesthetic development; influences the medium has had on art and culture.

  Proposed Description: Photo History Seminar. Seminar addressing critical issues and expressive approaches in photographic practice through the study of theory and history; technical and aesthetic development; influences the medium has had on art and culture.

- PHOT 6000 PHOT I FOR NON-MAJOR GRADS (Change Title, Change Description)
  Proposed Title: Introduction to Photography For Non-Major Grads

  Current Description: Photography I for Non-Major Graduates. Introduction to photography within fine arts context. Operation of 35mm camera, black and white film exposure and development, silver print processing, archival presentation. Lab Fee: $125.00.

  Proposed Description: Introduction to Photography For Non-Major Grads. Introduction to photography for non-major graduates within a fine arts context for non-major graduates. Operation of the DSLR camera and lenses. Lab Fee: $125.00.

- PHOT 6010 PHOT II FOR NON-MAJOR GRADS (Change Title, Change Prerequisites, Change Description)
Proposed Title: Film & Darkroom for Non-Majors

Current Prerequisites: Phot 6000 with grade of C or higher.
Proposed Prerequisites: Phot 6000 with grade of B or higher.
Current Description: Photography II for Non-Major Graduates. Prerequisite: Phot 6000 with grade of C or higher. Intermediate-level course emphasizing technical competency and alternative ways of making photographic imagery. Medium format cameras and introduction to a variety of black and white films and papers. Lab Fee: $125.00.

Proposed Description: Film and Darkroom for Non-Major Grads. Prerequisite: Phot 6000 with grade of B or higher. Intermediate-level course emphasizing technical competency with 35mm and medium format cameras, black-and-white film exposure and development, silver-gelatin print processing, and archival presentation. Lab Fee: $125.00.

BIOLOGY

ADD

- BIOL 2110K HUMAN ANATOMY PHYSIOLOGY I 4.0
  Human Anatomy and Physiology I. Three lecture and two laboratory hours a week. Prerequisites: recent course work in biology or chemistry is recommended. Survey of the major organ systems in the human body. Chemical principles are included.

- BIOL 2120K HUMAN ANATOMY PHYSIOLOGY II 4.0
  Human Anatomy and Physiology II. Three lecture and two laboratory hours a week. Survey of the major organ systems in the human body. Chemical principles as related to physiology are included.

- BIOL 4284/6284 MEDICAL BIOCHEMISTRY 4.0
  Medical Biochemistry in Health and Disease. Prerequisite: Chem 4600 with a C or better. Four hours a week. [Biol 6284] Overview of principles of biochemistry and metabolism at both the cellular and whole body level under normal physiological conditions in maintaining physical and mental health and in various disease states. These include exercising, starvation, trauma, infection, pregnancy, aging-related mental illness, obesity, diabetes, cardiovascular diseases and cancer.

- BIOL 7805 SI: BIOLOGY 1.0-6.0
  Supplemental Instruction (SI): Methods and Approaches. Prerequisite: Consent of instructor. Discussion with the SI supervisor as well as workshop participation. Principles
and strategies for effective teaching in the fields of Science, Technology, Engineering and Math will be emphasized.

Curriculum Committee notes: Requested additional information on the syllabus regarding pedagogy and training.

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**DROP**

- BIOL 1110K HUMAN ANATOMY & PHYSIOLOGY I 4.0
- BIOL 1120K HUMAN ANATOMY & PHYSIOLOGY II 4.0

**COMMUNICATIONS**

**ADD**

- COMM 6140/FILM 4140 SERIAL TV PRODUCTION 4.0
  Long Title: *Episodic and Serial Television Production*
  The creative, technical and managerial process of developing serialized entertainment for television as it propagates the Internet, both as audio-visual entertainment and audience response data. Students will learn the development, production, post-production, dissemination and analytic stages of contemporary New Media television practice by working in teams to produce a serial or episodic internet-based TV show. Extensive collaborative production required.

- COMM 6156/FILM 4156 MEDIA ENTREPRENEURSHIP 4.0
  Students will develop or continue to develop a media concept, business or technology through an intensive semester long curriculum structured as an incubator/accelerator. This class will study the convergence of media producer and media entrepreneur while students create at the intersection of media, business and technology and culminate with a final presentation of the student’s pitch and prototype to media industry professionals.

- COMM 6157/FILM 4157 CROSS-MEDIA DESIGN 4.0
  Design multimedia stories from the ground up in which movies, video games, web sites, smart phone applications, comic books, and other media are equal partners and all elements of a complete story.

- COMM 6158/FILM 4158 NEW MEDIA PRODUCTION 4.0
  An exploration of the production visual and audio assets for Internet transmission and interactive media experience, using techniques and forms that best utilize the evolving aesthetics of the digital and interactive media cultures of the moment. New concepts of
interactive storytelling in documentary and/or fiction, and for the visualization of characters and their settings will blend cinematic aesthetics with other aesthetic systems.

Curriculum Committee notes: Requested a consultation with English.

- **COMM 6159/FILM 4159 COMPUTATION MEDIA 4.0**
  An introduction to the production of creative components of interactive and digital media derived from code and computation that is at the forefront of new forms of personal and public expression. Popular culture in the form of games, websites, interactive television, interactive animation and digital art use computational media, and will be the genres that students will produce.

- **COMM 6355/FILM 4355 FICTION FILM PRODUCTION 4.0**
  Fiction filmmaking will be explored through the production of one advanced short project. Script interpretation, casting, location scouting, and shot design will enable students to realize complex approaches to directing cinematic narrative. Extensive out of class collaboration is required. Student must bear all costs for production.

- **COMM 6361/FILM 4361 SOUND DESIGN 4.0**
  The expressive aesthetics of motion picture sound, its technology and methods of production will provide students the foundations for creating soundtracks for their own films in progress, or for films already completed. Extensive lab time is required. Students must be able to work collaboratively to produce studio and field recordings.

- **COMM 6365/FILM 4365 EXPERIMENTAL MEDIA PRODUCTION 4.0**
  An advanced production course that explores highly-personal avant-garde and experimental media making by any means necessary, including but not limited to: experimental documentary and fiction, found footage/cameraless filmmaking, new media, web video, mobile media, video art, installation, etc.

- **COMM 6370/FILM 4370 VISUAL EFFECTS FOR FILM 4.0**
  This course will explore concepts of visual effects for film, television and games. These concepts will be applied to practical exercises where student will learn to manipulate media through compositing and 2-D animation.

- **COMM 6375/FILM 4375 MUSIC VIDEO PRODUCTION 4.0**
  This advanced course explores the history and developing aesthetics of music video through hands-on production exercises and projects. Participants learn about, analyze, and discuss the variety of modes in which musicians promote themselves, express their worldviews, and tell stories through the music video medium.
• FILM 2600 RADIO/TVMEDIA HISTORY 3.0
An overview of the history of radio, television and new entertainment media in the cultural contexts in which they emerged and have evolved into the 21st century. Discusses the local, national, and international media environments that influenced broadcasting media forms and charts aesthetic, audience, production, regulatory, industrial and technological developments and the social meanings and debates provoked by programming.

• FILM 4145 DIGITAL EDITING 4.0
Course Description: An exploration of editing media through the manipulation of images and sound. Film 4120. Only students who have met the Film major Eligibility Requirements may enroll in this course without department approval. All 3000-4000 level Film/Video courses require students to have a minimum GPA of 2.5 to FILM Area F courses prior to enrollment.

• JOUR 3934 PR PRACTICUM 1.0-4.0
Practical application of public relations techniques including client relations, writing and campaign development. Clients can be on and off campus, and some travel may be required. There is no set class time, but students will have review meetings with the instructor. Jour 3560 and permission of instructor. Only students who have met the Journalism major Eligibility Requirements may enroll in this course without department approval. All 3000-4000 level Journalism courses require students to have a minimum GPA of 2.5 to JOUR Area F courses prior to enrollment.

• JOUR 4030 JOURNALISM PRACTICUM 1.0-4.0
Course Description: Practical application of audio/video recording and editing skills to produce broadcast quality video to be aired by Georgia Public Broadcasting or other media partners with the university. Students will select from a calendar of events on and off campus to record audio/video and to post-produce for GPB programming, and some travel may be required. There is no set class time, but students will have review meetings to discuss their recordings and/or post-production work. Jour 3900. Only students who have met the Journalism major Eligibility Requirements may enroll in this course without department approval. All 3000-4000 level Journalism courses require students to have a minimum GPA of 2.5 to JOUR Area F courses prior to enrollment.

CHANGE

• THEA 3000 LIGHTING DESIGN FOR THEATER, FILM, AND TELEVISION
(Change Title, Change Description)
Proposed Title: Lighting Design for Theatre

Current Description: Lighting Design for Theatre, Film, and Television. Prerequisite for theatre majors: Thea 1010 with grade of C or higher. (Same as Film 3000 and Jour 3000.) Principles, processes, and aesthetics of lighting design for the theatre, film, and television. Lectures, discussion, and design practica aid students in the development of a lighting plot. Production crew work required.

Proposed Description: Description: Principles, processes, and aesthetics of lighting design for the theatre. Working knowledge of standard lighting equipment and terms used in the industry. Familiarity with the elements and functions of light, aesthetics of a lighting design, color in light and electrical theory. Practical experience working with lighting equipment used in theatre and design practica aid students in the development of a lighting plot, sectional, storyboards and paperwork for a theatrical production. Production crew work required.

**COMPUTER SCIENCE**

**ADD**

- **CSC 8713 SPATIAL & SCIENTIFIC DATABASES 4.0**
  Spatial and Scientific Databases. Prerequisite: CSc 6710. This course will cover a number of advanced concepts: spatial databases, high-dimensional data indexing (with applications in Content-based Image Retrieval through kNN querying), data warehouses, and an introduction to emerging spatio-temporal database systems. The lectures will provide graduate students with sufficient foundation to conduct their own, but supervised research in the field of databases at the graduate level. Students will gain hands on experience on the chosen aspect of database systems through completion of an individual graduate research project.

- **CSC 8850 MACHINE LEARNING 4.0**
  This course is intended to provide a general introduction to machine learning. This course will cover the fundamental concepts and principles of supervised learning and unsupervised learning, including concept learning, decision tree, artificial neural network, evaluating hypotheses, bayesian learning, instance-based learning, genetic algorithm, support vector machine, reinforcement learning, clustering algorithm, feature selection and feature extraction. Students will understand the basic knowledge of machine learning, be familiar with various supervised learning and unsupervised learning methods, gain experience of designing and implementing machine learning methods for
dataset with different characteristics, and develop abilities of conducting research in machine learning. 4.000 Credit hours.

**CHANGE**

- **CSC 2510 THEORETICAL FOUNDATIONS OF COMPUTER SCIENCE (Change Prerequisite)**
  Current Prerequisite: CSC 2010 and Math 1113
  Proposed Prerequisite: CSc 2010 and (Math 1112 or Math 1113 or Math 2211) with grade C or higher.

**ENGLISH**

**ADD**

- **ENGL 4520/6520 ARCHIVAL RESEARCH METHODS 3.0**
  Engl 4520 Archival Research Methods. Non-major prerequisite: Engl 1102 or Engl 1103 with grade of C or higher. Cross listed with ENGL 6520. Introduces students to archival research methods through the study of print and digital primary resources. Includes study of methodologies, methods, material conditions of archival collections, researcher positionality, and the cultural contexts of production and collection of primary materials.

- **ENGL 4206 TEACHING ENGLISH 3.0**
  Teaching in English Studies: prerequisite: Engl 2120, 2130, 2140, or 3040 with grade of C or higher. This course gives students a foundation in the philosophy and practice of teaching English Studies in secondary education or in other educational settings where literacy is taught. Course materials and activities will explore the teaching profession through the study of scholarly and popular texts which explicitly address teaching and will focus on the specific challenges and opportunities associated with teaching a particular specialty within the field of English studies.

**CHANGE**

- **ENGL 3150A INTRO TO CREATAIVE WRITING-POETRY (Change Prerequisite)**
  Current Prerequisite: Engl 2120 or Engl 2130 with a grad of C or higher.
  Proposed Prerequisite: Engl 2110, 2120 or 2130 with grade of C or higher.

- **Engl 3150B INTRO TO CREATIVE WRITING FICTION (Change Prerequisite)**
  Current Prerequisite: Engl 2120 or Engl 2130 with grade of C or higher.
  Proposed Prerequisite: Engl 2110, 2120 or Engl 2130 with grade of C or higher.
• ENGL 4521/6521 ARCHIVAL RESEARCH METHODS (Change Description)
  Current Description: Archival Research Methods. Non-major prerequisite: Engl 1102 or Engl 1103 with grade of C or higher. Cross listed with ENGL 6520. Introduces students to archival research methods through the study of print and digital primary resources. Includes study of methodologies, methods, material conditions of archival collections, researcher positionality, and the cultural contexts of production and collection of primary materials.

  Proposed Description: Archival Research Methods. Non-major prerequisite: Engl 1102 or Engl 1103 with grade of C or higher. Cross listed with ENGL 6521. Introduces students to archival research methods through the study of print and digital primary resources. Includes study of methodologies, methods, material conditions of archival collections, researcher positionality, and the cultural contexts of production and collection of primary materials.

DROP

• ENGL 4200 TOPICS 3.0

GEOSCIENCES

CHANGE

• GEOG 4532 GEOGRAPHIC INFORMATION SYSTEMS (Change Prerequisite)
  Current Prerequisite: Geog 4518 with grade of C or higher, or consent of instructor.
  Proposed Prerequisite: None

• GEOL 4006 SEDIMENT ENVIR & STRATIGRAPHY CTW (Change Title, Change Prerequisite)
  Proposed Title: Sedimentology & stratigraphy CTW
  Current Prerequisites: Geol 3002 with grade of C or higher
  Proposed Prerequisites: Geol 4015 with grade of C or higher or consent of instructor

• GEOL 4013 STRUCTURAL GEOLOGY (Change Prerequisites)
  Current Prerequisite: Geol 3002.
  Proposed Prerequisite: Geol 4015

• GEOL 4015 CRYSTAL AND OPTICAL MINERALOGY (Change Prerequisite)
  Current Prerequisite: Geol 3002 with grade of C or higher.
Proposed Prerequisite: CHEM 1211k with grade of C or higher, or concurrent registration.

- GEOL 4030 X-RAY METHODS AND TECHNIQUES (Change Prerequisite)
  Current Prerequisite: Geol 3002.
  Proposed Prerequisite: Geol 4015 or consent of instructor.

HISTORY

ADD

- HIST 3260 THE HARLEM RENAISSANCE 3.0
  Harlem became the epicenter of Black America in the 1920s and 1930s. This course explores the historical social, political, and economic forces that set the stage for the emergence of this dynamic urban community and the contributions by writers, artists, journalists, folklorists, political leaders, organizations, and working class African Americans.

- HIST 6990 HISTORICAL RESEARCH 4.0
  Varies in topic and theme. A specialist guides students in the design of individual research topics, the collection and analysis of evidence from primary sources, and composition of a coherent research paper with depth. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all History majors. HIST 6990 replaces 4990 for students in the dual BA/MA program in History.

  Curriculum Committee notes: Graduate courses cannot be used as CTW courses.

CHANGE

- HIST 3240 SPORT & LEISURE IN AMERICA (Change Title, Change Description)
  Proposed Title: History of Sports and Leisure

  Current Description: Sport and Leisure in America. The history of sport and leisure in the United States from the Colonial Era to the present, covering sport, tourism, and entertainment

  Proposed Description: Examines diverse examples of sports and leisure in human history, with special focus on their relationship to industrialization, nation-building, and empire.
**MATHEMATICS AND STATISTICS**

**ADD**

- **MATH 0999 SUPPORT FOR COLLEGE ALGEBRA 2.0**  
  Math 0999 Support for College Algebra. Prerequisite: A suitable score on the math placement test and concurrent registration in Math 1111. This course provides support for students concurrently enrolled in Math 1111 College Algebra. The course covers Math1111 prerequisite material, including sets, real numbers and their properties, manipulation of fractions, polynomials, rules of exponents, polynomial addition and subtraction, factoring, rational expressions, rational exponents, and radical expressions. The content is sequenced so that it is covered as it is needed in Math 1111.

- **MATH 4030/6030 MATHEMATICAL MUSIC THEORY 3.0**  
  Math4000/6000. Prerequisite: Grade of C or higher in MATH 3000; study specific aspects of group theory, algebraic combinatorics on words, similarity and distance measures, topology and geometry, and topos theory that are used in the analysis of general objects of music (scales, chords, rhythmic patterns) as well as in specific applications (development of software, music cognition, analysis of pieces from different time periods and genres).

- **MATH 4381/6381 GENERAL TOPOLOGY 3.0**  
  Math 4381/6381. Prerequisite: Grade of C or higher in MATH 3000. This course will provide an introduction to general topology, which is the study of spaces and how to classify spaces according to their characteristic properties. The class will begin with a brief review of basic set theory and metric spaces. Topics covered include topological spaces, continuous functions, topological properties (connectedness, compactness, countability, and separation axioms), the fundamental group, and covering spaces.

- **MATH 4382/6382 ALGEBRAIC TOPOLOGY 3.0**  
  Math 4382/6382. Prerequisite: Grade of C or higher in General Topology (MATH 4381/6381) and Modern Algebra I (Math 4441). This course will provide an introduction to methods in algebraic topology. Topics covered include fundamental groups, covering space theory, simplicial complexes, simplicial homology, singular homology, singular cohomology, and higher homotopy groups.

**CHANGE**

- **MATH 1111 COLLEGE ALGEBRA (Change Prerequisite, Change Description)**  
  Current Prerequisite: Math 0099 with grade of C or higher or a suitable score on the math placement test.
Proposed Prerequisite: Math 0099 with a grade of C or higher, or a suitable score on the math placement test, or concurrent registration in Math 0999, or departmental approval.

- **MATH 1113 PRECALCULUS (Change Description)**
  Current Description: Precalculus. Prerequisite: Math 1111 with grade of C or higher or a suitable score on the math placement test, or departmental approval. Trigonometric functions, identities, inverses, and equations; vectors; polar coordinates; conic sections.

  Proposed Description: Precalculus. Prerequisite: Math 1111 with a grade of C or higher, or a suitable score on the math placement test, or departmental approval. This course is an intensive study of the basic functions needed for the study of calculus. Topics include algebraic, functional, and graphical techniques for solving problems with algebraic, exponential, logarithmic, and trigonometric functions and their inverses.

**MODERN AND CLASSICAL LANGUAGES**

**ADD**

- **SPAN 3304 ADVANCED SPANISH COMPOSITION CTW 3.0**
  SPAN 3304 Advanced Spanish Composition. Prerequisites SPAN 2002 or SPAN 2101 with grade of C or higher, or equivalent, or consent of instructor. Improve the ability to communicate in writing in Spanish through a variety of discourses, such as descriptive, narrative (past and present), argumentative, and analytical. This objective will be accomplished through the study and practice of grammar, through a variety of exercises as well as by writing different types of compositions. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all Spanish majors.

**CHANGE**

- **FREN 4033/6108 FRENCH FOR INTL BUSINESS I (Change Description)**

  Proposed Description: French for International Business I. Prerequisites: French 3013, French 3023, and French 3033 with grades of C or higher, or consent of the instructor. Cross listed with French 6108. Discussion of current business and economic issues in French-speaking countries with an emphasis on strategy, international marketing and entrepreneurship. 3.000 credit
• FREN 4043/6109 FRENCH FOR INTRL BUSINESS II (Change Description, Change Prerequisite)
  Current Description: French for International Business II. Prerequisite: Fren 4033 with grade of C or higher, or consent of instructor. Readings in the foreign language of current materials related to business and trade structures, issues, and procedures.

  Proposed Description: French for International Business II. Prerequisite: French 3013, French 3023, and French 3033 with grades of C or higher, or consent of the instructor. Cross listed with French 6109. Discussion of current economic issues in French-speaking countries as well as in the European Union and of business issues with an emphasis on professional communication and international job search. 3.000 credit hours

• GRMN 3302 ADVANCED GERMAN II (Change Title, Change Description)
  Proposed Title: Advanced German II-Practical Conversation

  Current Description: Advanced German II. Prerequisite: Grmn 3301 with grade of C or higher. An advanced language skills course, designed to bring students to the level of "Zertifikat Deutsch als Fremdsprache." Emphasis on improvement of skills in the spoken language.

  Proposed Description: ADVANCED GERMAN II - PRACTICAL CONVERSATION. Prerequisite: GRMN 3301 with grade of C or higher. An advanced language course with emphasis on improvement of skills in the spoken language. Development of oral communication skills and vocabulary building through practical scenarios on topics relating to everyday situations and professional life.

• SPAN 3314 HISPANIC LITERATURE (Change Title, Change Prerequisite, Change Description)
  Proposed Title: Hispanic Literature & Culture

  Current Prerequisite: Span 3307 with grade of C or higher.

  Proposed Prerequisite: SPAN 2002 or SPAN 2101 with a grade of C or higher, or equivalent, or consent of instructor.

  Current Description: Survey of Hispanic Literature. Prerequisite: Span 3307 with grade of C or higher. All genres from Medieval through the present or the Conquest through the present.
Proposed Description: Study of genres and/or themes in Hispanic Literature and/or Culture across time periods up to the present day. Prerequisites: SPAN 2002 or SPAN 2101 with a grade of C or higher, or equivalent, or consent of instructor.

- **SPAN 4420 MED & EARLY RENSPAN LIT** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4421 EARLY MODERN LIT & CULTURE** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher.

- **SPAN 4432 SPAN NOVEL 20TH CENTURY** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4440 SPECIAL TOPICS: SPAN LIT** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisites: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4454 CONTEMP LATIN AMER NOVE** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4456 LATIN AMER SHORT STORY** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4467 LAT AM FILM & VIDEO** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grade of C or higher, or equivalent.
  Proposed Prerequisite: Spanish 3303 and Span 3314 with grade of C or higher, or equivalent.

- **SPAN 4468 HISPANIC CARIBBEAN LIT & CULT** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grade of C or higher, or equivalent.
Proposed Prerequisite: Span 3303 and Span 3314 with grade of C or higher, or equivalent.

- **SPAN 4469 AFRO-HISPAINC LIT & CULTURE** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4470 SPEC TOP IN LAT AMER LIT** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grade of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grade of C or higher, or equivalent.

- **SPAN 4480 SPEICAL TOPS: HISPANIC CULTURE** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

- **SPAN 4890 CONTEMPORARY MEXICAN FICTION** (Change Prerequisite)
  Current Prerequisite: Span 3303 and Span 3307 with grades of C or higher, or equivalent.
  Proposed Prerequisite: Span 3303 and Span 3314 with grades of C or higher, or equivalent.

**DROP**

- **SPAN 3307 INTRO STUDY OF LIT TEXTS-CTW 3.0**

**MILITARY SCIENCE**

**ADD**

- **MSL 1001 PHYSICAL FITNESS 3.0**
  This course is a physically and mentally challenging course where you will study, practice, and execute the US Army physical readiness training program in conjunction with other military and civilian fitness programs and models.

**MUSIC**

**ADD**
• **MUS 4980/6980 ELECTROACOUSTIC MUS COMP 3.0**  
Electroacoustic Music Composition. Prerequisite: MUS 4730 or MUS 6730 with grade of C or higher, or consent of instructor. Crosslist with MUS 6980. Investigation of methods of electroacoustic music composition using MIDI, hardware synthesizers, and software tools. Focus on unique tool development using the MAX programming environment and associated technologies. Approaches to advanced composition with electroacoustic means from both scientific and aesthetic perspectives. Required laboratory work.

• **MUS 6470 GRAD CHORAL CONDUCTING RECITAL 1.0**  
Each MM in choral conduction student is required to perform several graduate recitals that total 45 minutes of music over the course of the degree program. These recitals will be given with the Georgia State University Master Singers or some other approved ensemble. (Approval must come from the director of choral activities.) The ultimate selection of repertoire is at the discretion of the teacher for the needs of the student. There should be one selection or set for voice and instruments.

• **MUS 6650 CHORAL LITERATURE 3.0**  
Students who take this course will have a comprehensive understanding of the seminal choral repertoire from the Renaissance through today. Be able to discuss specific repertoire through class discussions and presentations. Be able to write about the history of choral music through take-home exams and a final paper.

**CHANGE**

• **MTM 3110 INTRO AUDIO RECORDING (Change Description)**  
Current Description: Introduction to Audio Recording Prerequisites: 1111K, Phys 1112K, Phys 2030K, and Mus 2440 with grades of C or higher. Two lecture and two laboratory hours. Introduction to modern recording techniques and applications of recorded sound. Historic overview of recording focusing on development of consoles, tape machines, and related equipment. Psychophysics of sound and musical psychoacoustics as they relate to audio recording, including critical listening skills. Introduction to the laboratory recording equipment and techniques. Required laboratory work.

Proposed Description: Introduction to Audio Recording. Prerequisites: Phys 1111K, Phys 1112K, Phys 2030K, and Mus 2440 with grades of C or higher and consent of instructor. Two lecture and two laboratory hours. Introduction to modern recording techniques and applications of recorded sound. Historic overview of recording focusing on development of consoles, tape machines, and related equipment. Psychophysics of sound and musical psychoacoustics as they relate to audio recording including critical listening skills. Introduction to the laboratory recording equipment and techniques. Required laboratory work.
• **MTM 3120 DIGITAL AUD TECH AND RCRD (Change Description)**

  **Current Description:** Digital Audio Technology and Recording Techniques. Prerequisites: MTM 3110, Phys 1111K, Phys 1112K, Phys 2030K, and Mus 2440 with grades of C or higher. Two lecture and two laboratory hours. Studio-based introduction to the vocabulary, techniques, and procedures used in professional recording environments. Audio theory, introduction to digital audio science, psychoacoustics, console operation, advanced microphone techniques, monitor systems, noise reduction, and analysis of association equipment and technical usage. Required laboratory work.

  **Proposed Description:**
  Digital Audio Technology and Recording Techniques. Prerequisites: MTM 3110, Phys 1111K, Phys 1112K, Phys 2030K, and Mus 2440 with grades of C or higher and consent of instructor. Two lecture and two laboratory hours. Studio-based introduction to the vocabulary, techniques, and procedures used in professional recording environments. Audio theory, introduction to digital audio science, psychoacoustics, console operation, advanced microphone techniques, monitor system, noise reduction, and analysis of association equipment and technical usage. Required laboratory work.

• **MTM 3130 ADV TPCS RECDG AUD PROD (Change Description)**

  **Current Description:** Advanced Topics in Recording and Audio Production. Prerequisites: MTM 3120, Phys 1111K, Phys 1112K, Phys 2030K, and Mus 2330 with grades of C or higher. Two lecture and two laboratory hours. Studio-based application of recording techniques including musical judgments in audio mixing, recording production. Editing, master, and master recording preparation. Laboratory training in techniques for high-quality audio recording commensurate with commercial and artistic standards. Creation of a professional audio product through the development of independent recording sessions including selection of material and final editing and mastering. Required laboratory work.

  **Proposed Description:** Advanced Topics in Recording and Audio Production. Prerequisites: MTM 3120, Phys 1111K, Phys 1112K, Phys 2030K, and Mus 2330 with grades of C or higher and consent of the instructor. Two lecture and two laboratory hours. Studio-based application of recording techniques including musical judgments in audio mixing, recording production. Editing, master, and master recording preparation. Laboratory training in techniques for high-quality audio recording commensurate with commercial and artistic standards. Creation of a professional audio product through the development of independent recording sessions including selection of material and final editing and mastering. Required laboratory work.
MTM 3230 AUDIO POST PRODUCTION (Change Description)
Current Description: Audio Post-Production. Prerequisite: MTM 3110 with grade C or higher. Three lecture hours and three laboratory hours. Introduction to the digital audio workstation as the central tool for audio post-production. Emphasis on random access editing for master preparation, application to the broadcast fields, and related topics. Introduction to audio forensics and digital sign processing for sound reconstruction and enhancement. Introduction to compact-disc mastering. Digital filter theory, time-frequency, manipulations, and software for audio post-production are also covered.

Proposed Description: Audio Post-Production. Prerequisite: MTM 3110 with grade C or higher and consent of instructor. Three lecture hours and three laboratory hours. Introduction to the digital audio workstation as the central tool for audio post-production. Emphasis on random access editing for master preparation, application to the broadcast fields, and related topics. Introduction to audio forensics and digital sign processing for sound reconstruction and enhancement. Introduction to compact-disc mastering. Digital filter theory, time-frequency, manipulations, and software for audio post-production are also covered.

MUS 3310 INTRO TO MUSIC EDUCATION (Change Title)
Proposed Title: Intro to Music Education-CTW

MUS 4270 STUDENT TEACH MUS (Change Credit Hours)
Current Credit Hours: 9.0
Proposed Credit Hours 6.0

MUS 4830 INTERNSHIP IN MUSIC ED II (Change Credit Hours)
Current Credit Hours 9.0
Proposed Credit Hours 6.0

NEUROSCIENCE

NEUR 4330 FUNCTIONAL NEUROIMAGING 3.0
Functional Neuroimaging. (Same as Phys 6710.) Prerequisite: consent of instructor. Three lectures 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
graduate students in physics, chemistry, biology, neuroscience, psychology, mathematics, statistics, and computer science with an interest in the use of functional neuroimaging.

- **NEUR 6015 CELL AND MOLECULAR NEUROSCIENCE 4.0**
  NEUR 6015 Cellular and Molecular Neuroscience. Prerequisite: Neur 3000, Biol 4102, Neur 6010, or Biol 6102, or equivalent. Topics include excitable membranes and cells, ion channels, synaptic transmission and plasticity, ion channels and receptors, neural development, and axon guidance. An elective for graduate Neuroscience majors. 4.000 credit hours

- **NEUR 6020 COGNITIVE NEUROSCIENCE 4.0**
  NEUR 6020 Cognitive Neuroscience. Prerequisite: NEUR 3000 or permission of instructor. Covers the neural basis of cognition, learning, emotion, memory and language, and the methods used to investigate these areas of research.

- **NEUR 6050 STATISTICS FOR NEUROSCIENCE 3.0**
  NEUR 6050: Statistics for Neuroscience. Prerequisite: Prerequisite: Neur 3000, Biol 4102, Neur 6010, or Biol 6102, or equivalent, with a grade of C or higher. This course provides an advance review of descriptive and inferential statistics as applied to neuroscience research questions. Topics include hypothesis-testing statistics, complex (multi-factor) designs, correlation, regression, multivariate methods and some non-parametric treatments. An elective for the Ph.D. program in Neuroscience.

- **NEUR 6115 MEDICAL NEUROANATOMY 4.0**
  NEUR 6115 Medical Neuroanatomy. Prerequisite: BIOL 3840 with grade of C or higher, or equivalent. Four lecture hours per week. Human brain and spinal cord functional neuroanatomy and associated pathologies. Elective for the Ph.D. program in Neuroscience.

- **NEUR 6150 DRUGS AND THE NERVOUS SYSTEM 3.0**
  Drugs and the Nervous System. Prerequisites: PSYC 1100 and PSYC 2050 with grades C or higher, or consent of instructor. This provides an in-depth and advanced exploration of the neuronal and chemical mechanisms underlying psychoactive drug action as well as compulsive drug usage. The focus will be both on drugs of abuse as well as pharmacological interventions in neural/behavioral disorders. An elective for Neuroscience majors 3.0 credit hours.

- **NEUR 6250 NEUROSCIENCE MEMORY 3.0**
  NEUR 6250 Neuroscience of Memory Prerequisites: NEUR 3000, BIOL 4102, or equivalent. An introduction to the neural bases of memory. The course begins with a
review of the historical background, experimental methods, and relevant principles of neuroscience. The Neuroscience of memory will then be reviewed at different levels of biological organization, including molecular/cellular, neural circuit, neural systems, and behavioral.

- **NEUR 6360 MATHEMATICAL BIOLOGY 3.0**
  NEUR 6360 Mathematical Biology. 3 credit hours. Prerequisites: Grade of C or higher in MATH 2212 or MATH 2202. This course provides an introduction to the use of continuous and discrete differential equations in the biological sciences. Biological topics will include single species and interacting population dynamics, modeling infectious and dynamic diseases, regulation of cell function, molecular interactions and receptor-ligand binding, biological oscillators, and introduction to biological pattern formation. There will also be discussions of current topics of interest such as Tumor Growth and Angiogenesis, HIV and AIDS, and Control of the Mitotic Clock. Mathematical tools such as phase portraits, bifurcation diagrams, perturbation theory, and parameter estimation techniques that are necessary to analyze and interpret biological models will be also covered.

- **NEUR 6370 APPLIED DYNAMICAL SYSTEMS 3.0**
  NEUR 6370: Applied Dynamical Systems. Prerequisite: MATH 3260 and MATH 3435. An introduction to discrete and continuous dynamical systems. Topics include: phase space; linear and nonlinear systems; structural stability; classification of equilibrium states, invariant manifolds; Poincare maps, fixed points and period orbits; stability boundaries; local bifurcations; homoclinic orbits; routes to chaos in dissipative systems; applications from physics, biology, population dynamics, economics.

- **NEUR 6576 NEUROVIROLOGY 4.0**
  NEUR 6576 Neurovirology. Prerequisite: BIOL 3800 with grade of C or higher. 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 towards the onset of Alzheimer's disease.

- **NEUR 6610 NEUROROBOTICS 4.0**
  Neurorobotics. Prerequisites: NEUR 3000 with a grade of C or higher or by permission of instructor. Four lecture hours per week. This course will examine how the principles of neuroscience enable animals and humans to respond adaptively, and how these principles
can be applied to create an autonomous, adaptively behaving robot. Students will apply principles to create their own computational model of an animal or autonomous robot that can respond adaptively to challenges in its environment.

- NEUR 8050 SKILLS FOR PROFESSIONAL 3.0
  NEUR 8050. Skills for Professional Neuroscientists. Prerequisites: Biol 8010 and Biol 8020, or Neur 8010 and Neur 8020, or equivalents, or consent of instructor. Four lecture hours a week. Topics include: introduction to the scientific method, critical analysis of Neuroscience Literature, and proposal writing.

  Curriculum Committee notes: Credit hours and lectures hours are not coherent.

CHANGE

- NEUR 8020 NEUROBIOLOGY II: INTEGRATIVE (Change Title, Change Description)
  Proposed Title: Neurobiology II
  Current Description: Neurobiology II: Integrative Neurobiology. Prerequisite: Biol 8010 or Neur 8010 with grade of B or higher, or equivalent, or consent of the instructor. (Same as Biol 8020 and Psyc 8617.) Four lecture hours a week. How neurons are organized into neural systems that control behavior. Topics include functional anatomy of sensory systems, sensorimotor integration, central pattern generators, motor and control systems, neuromodulation, neuroethology, and the neural basis of learning and cognition.

  Proposed Description: NEUR 8020 Neurobiology II: Integrative Neurobiology. Prerequisites: BIOL 8010 or NEUR 8010 with grade of B or higher, or equivalent, or consent of the instructor. Four lecture hours a week. Advanced analysis of how neurons are organized into systems that control behavior. Topics include functional neuroanatomy, sensory and motor systems, the neural basis of learning, and motivation.

- NEUR 8040 RESEARCH DESIGN AND ANALYSIS (Change Description, Change Credit Hour)
  Current Description: Research Design and Analysis in Neuroscience. This course will train doctoral students in the design of neuroscience experiments and the statistical methodologies appropriate for analyzing these data. Topics include experimental design, parametric and non-parametric statistical analyses, as well as applied problem sets using neurobiobehavioral data. Multivariate regression analysis, ANCOVA and probability theory will also be covered.

  Proposed Description: NEUR 8040 RESEARCH DESIGN AND ANALYSIS This course will train doctoral students in the design of neuroscience experiments and the
statistical methodologies appropriate for analyzing these data. Topics include experimental design, parametric and non-parametric statistical analyses, as well as applied problem sets using neurobiobehavioral data. Concurrent laboratory component will cover data entry and analysis using SPSS. 4.000 Credit hours.

Current Credit Hours: 3.0  
Proposed Credit Hours 4.0

DROP

- NEUR 4110 PHYSIOLOGICAL PSYCHOLOGY 3.0
- NEUR 8030 NEURAL COMPUTATIONAL MECHANISM 4.0

PHILOSOPHY

CHANGE

- PHIL 4760 ETHICS AND CONT PUBLIC POLICY (Change Description, Change Prerequisites)
  Current Description: Ethics and Contemporary Public Policy - Ethics Bowl. Prerequisite: Consent of instructor. Course will explore how ethical theories may illuminate current debates in public policy. Students will also prepare for "ethics bowl" competitions. Course may be repeated, but only twice toward philosophy major. 3 credit hours.

  Proposed Description: Ethics and Contemporary Public Policy - Ethics Bowl  
  Prerequisite: One 2000 or 3000-level philosophy course or consent of the instructor. Course explores how ethical theory may illuminate current controversial issues in practical ethics, applied ethics, and public policy. Topics change each year. Course includes preparation for "ethics bowl" competitions, which are collaborative exchanges where teams compete to offer the most compelling ethical accounts of an issue. Students have the option of attending Ethics Bowl tournaments, which take place annually in Florida and elsewhere. Course may be repeated, but only twice toward philosophy major.

  Current Prerequisites: Consent of instructor.
  Proposed Prerequisites: One 2000 or 3000-level philosophy course or consent of the instructor.

- PHIL 4960 INTERNSHIP (Change Prerequisites, Change Description)
  Current Prerequisites: Internship. Designed to allow majors and minors the opportunity to apply and develop their philosophical skills outside the classroom and to see the relationship between philosophy and a profession
Proposed Prerequisites: Minimum 2.5 GPA, philosophy major or minor, 15 credit hours earned in PHIL courses, and 30 credit hours earned GSU.

Current Description: Internship. Designed to allow majors and minors the opportunity to apply and develop their philosophical skills outside the classroom and to see the relationship between philosophy and a profession.

Proposed Description: Internship. Prerequisite: Minimum 2.5 GPA, philosophy major or minor, 15 credit hours earned in PHIL courses, and 30 credit hours earned GSU. Designed to allow majors and minors the opportunity to apply and develop their philosophical skills outside the classroom and to see the relationship between philosophy and a profession.

PHIL 4990 SENIOR SEM IN PHILOSOPHY-CTW (Change Title, Change Prerequisites, Change Description)
Proposed Title: Advanced Sem in Philosophy –CTW

Current Prerequisites: Senior class standing, major in philosophy, Phil 2010, Phil 2050 or 3000, Phil 3010, and Phil 3020 with grades of C or higher.

Proposed Prerequisites: Major in philosophy, PHIL 2010, PHIL 3000, and PHIL 3020 with grades of C or higher.

Current Description: Senior Seminar in Philosophy-CTW. Prerequisites: senior class standing, major in philosophy, Phil 2010, Phil 2050 or 3000, Phil 3010, and Phil 3020 with grades of C or higher. This course offers an in-depth treatment of a specific philosophical issue (for example, the role of paternalism in a liberal society, reliabilist theories of knowledge, the nature of moral emotions) in a seminar setting, where students have an opportunity to engage in systematic discussions of primary texts and the philosophical issues they raise. This investigation of a topic from a variety of vantage points allows students to develop an informed position and the argumentative skills necessary to defend it successfully, both orally and in writing. This course is the capstone to the major in philosophy. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all philosophy majors. May be repeated with instructor permission but only if content varies. A maximum of six credit hours may be applied toward the major.

Proposed Description: Advanced Seminar in Philosophy - CTW Prerequisites: Major in philosophy, PHIL 2010, PHIL 3000, and PHIL 3020 with grades of C or higher. This
course offers an in-depth treatment of a specific philosophical issue (for example, the role of paternalism in a liberal society, reliabilist theories of knowledge, the nature of moral emotions) in a seminar setting, where students have an opportunity to engage in systematic discussions of primary texts and the philosophical issues they raise. This investigation of a topic from a variety of vantage points allows students to develop an informed position and the argumentative skills necessary to defend it successfully, both orally and in writing. Serves as one of the two Critical Thinking Through Writing (CTW) courses required of all philosophy majors. May be repeated with instructor permission but only if content varies. A maximum of six credit hours may be applied toward the major.

PHYSICS & ASTROMONY

ADD

- ASTR 8560 NANOPLASMONICS 3.0
  Nanoplasmonics. Three lecture hours a week. Study of the fundamental properties and applications of the surface plasmonics at the nanoscale. Includes coherent effects associated with phase memory of surface plasmons, control of nano-optical phenomena, nonlinear processes, ultrafast (femtosecond and attosecond) phenomena, and quantum quasiparticles. Applications of nanoplasmonics, including the detection of ultra-small amounts of chemical and biological compounds, scanning near-field optical microscopes (NSOMs or SNOMs) and nanolithography.

- PHYS 8150 COMP METHODS FOR PHYS AND ASTR 3.0
  (Same as Astr 8150) Computational Methods for Physics and Astronomy. Some prior programming experience is expected. Solving physics problems using modern numerical methods, with a practical “hands-on” approach to code-writing. A wide range of subjects will be covered including numerical analysis (integration, differentiation, differential equations), error analysis (error propagation, bootstrapping), modeling and fitting (maximum likelihood, maximum a posteriori), time series analysis (correlations, Fourier transforms, principal components decomposition, wavelets), optimization (root finding, minimization engines), image processing (filtering, registration and comparison, inverse methods) and parallel programming.

CHANGE

- ASTR 6300 TEACHING ASTRONOMY (Change Description, Change Credit Hours)
  Current Description: Teaching Astronomy. Prerequisite: demonstrated ability in basic astronomy via an undergraduate program or consent of the instructor. Research on student learning, understanding concepts, teaching styles and models, types of test and
other evaluations, and presentation techniques, participation in the faculty enrichment seminars organized by the Center for Teaching and Learning.

Proposed Description: Two lecture hours per week. Course provides a theoretical and practical foundation for science teaching. Topics include univocal and dialogic discourse, questioning strategies, Bloom’s taxonomy, mental models, formative assessment and bridging, the resource framework, motivation and cooperative learning, argumentation, metacognition, nature of science, and qualities of effective teachers.

Current Credit Hours: 1.0
Proposed Credit Hours: 2.0

- **ASTR 6310 TEACHING ASTRONOMY LAB PRACTCM (Change Description)**
  Current Description: Teaching Astronomy Lab Practicum. Prerequisite or corequisite: Astr 6300 with grade of C or higher, or consent of the instructor. One half-hour seminar and two laboratory hours a week. Hands-on experience in teaching introductory laboratories, the syllabus will vary according to the specific lab taught.

  Proposed Description: One and one half hours per week. Students will practice teaching astronomy lessons and apply science teaching theories and methods learned in Astr 6300.

- **ASTR 8100 STELLAR STRUCTURE & EVOLUTION (Change Description)**
  Current Description: Stellar Structure and Evolution. Four lecture hours a week. Applications of the time-dependent equations of stellar structures to models of stellar interiors: thermodynamics, hydrostatics, energy transport, nuclear energy generation, protostars, red giants, white dwarfs, neutron stars, and black holes.

  Proposed Description: Four lecture hours a week. The concepts of thermodynamics, hydrostatics, energy transport, and nuclear energy generation are developed to understand the structures of stars. Time-dependent versions of these relations are then used to understand star formation, stellar evolution, red giants, white dwarfs and supernovae.

- **ASTR 8700 REL ASTROPHYSICS & COSMOLOGY (Change Title, Change Description)**
  Proposed Title: Observational Cosmology
  Current Description: Relativistic Astrophysics and Cosmology. Prerequisites: Phys 8100 with grade of C or higher, or equivalent. Four lecture hours a week. Introduction to the theory of general relativity, coordinate systems, tensor analysis, and Einstein’s equation,
application to problems of astronomical concern such as neutron stars, black holes, and gravitational radiation, relativistic cosmologies, and physical cosmology, including the Big Band and the growth of structure in the universe.

Proposed Description: Four lecture hours a week. Standard Big Bang model of the universe with emphasis on observational evidence and constraints on cosmological parameters. Expansion history, primordial nucleosynthesis, cosmic microwave background, inflation, structure formation, dark matter and dark energy.

- **ASTR 8910 DIRECTED STUDY IN ASTRONOMY (Change Description)**
  
  Current Description: Directed Study in Astronomy. Area of study and credit to be determined by the department.

  Proposed Description: Area of study and credit to be determined by the department. May include attendance and participation in seminars, colloquia or other departmental scientific activities.

- **PHYS 6300 TEACHING PHYSICS (Change Description, Change Credit Hours)**
  
  Current Description: Teaching Physics. Prerequisites: demonstrated ability in basic physics via an undergraduate degree or consent of the instructor. Research on student learning, understanding concepts, teaching styles and models, types of testing and other evaluations, and presentation techniques, participation in the faculty enrichment seminars organized by the Center for Teaching and Learning.

  Proposed Description: Two lecture hours per week. Course provides a theoretical and practical foundation for science teaching. Topics include univocal and dialogic discourse, questioning strategies, Bloom’s taxonomy, mental models, formative assessment and bridging, the resource framework, motivation and cooperative learning, argumentation, metacognition, nature of science, and qualities of effective teachers.

  Current Credit Hours: 1.0
  Proposed Credit Hours 2.0

- **PHYS 6310 TEACHING PHYSICS LAB PRAC (Change Description)**
  
  Current Description: Current Description: Teaching Physics Lab Practicum. Prerequisite Phys 6300 with grade of C or higher, or current enrollment in Phys 6300, or consent of the instructor. One half-hour seminar and two laboratory hours a week. Hands-on experience in teaching introductory labs, the syllabus will vary according to the specific lab taught.
**Proposed Description:** One and one half hours per week. Students will practice teaching physics lessons and apply science teaching theories and methods learned in Phys 6300.

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<td>• ASTR 8600 STELLAR SPECTROSCOPY 3.0</td>
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**POLITICAL SCIENCE**

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| • POLS 3805 SURVEY RESEARCH METHODS LAB 1.0  
Survey Research Methods Lab.  
Prereq: Concurrent or prior registration in POLS 3800. This course provides students with a background in the principles and application of survey research methods in political science, including hands-on experience conducting survey research. |

| • POLS 4935 EXPERIENTIAL LEARNING 3.0  
This course is for students seeking Political Science major credit for internships they have secured with an external provider. |

**Curriculum Committee notes:** Suggested making the credit hours variable up to 6 credit hours.

**PSYCHOLOGY**

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| • PSYC 9900T TEACHING SEMINAR 3.0  
This course is required of all psychology graduate students who want to teach undergraduate courses in the Department of Psychology as a Graduate Teaching Assistant. Before teaching, you must also have successfully defended your master’s thesis. This is a seminar course during which we will discuss practical matters of teaching, with the goal of preparing students for their first teaching experience. Graduate standing required. |

**CHANGE**

| • PSYC 4020 SOCIAL PSYCHOLOGY (Change Prerequisite)  
Current Prerequisite: Psyc 1101 with grade of C higher, or Equivalent.  
Proposed Prerequisite: PSYC1101 and 3510 with grades of C or higher, or equivalent. |
- PSYC 4030 CROSS-CULTURAL PSYCHOLOGY (Change Prerequisite)
  Current Prerequisite: Psyc 1101 with grade of C or higher, or equivalent.
  Proposed Prerequisite: PSYC1101 and PSYC3510 with grades of C or higher, or equivalent.

- PSYC 4050 DRUGS AND THE NERVOUS SYSTEM (Change Prerequisite)
  Current Prerequisite: Psyc 1100 or Psyc 2050 with grades of C or higher, or consent of instructor.
  Proposed Prerequisite: Psyc 1100 or Psyc 2050, and PSYC3510 with grades of C or higher, or consent of instructor.

- PSYC 4220 INTRO TO BEHAVIOR MODIFICATION (Change Prerequisite)
  Current Prerequisite: Psyc 1101 with grade of C or higher, or equivalent.
  Proposed Prerequisite: PSYC1101 and 3510 with grades of C or higher, or equivalent.

- PSYC 4620 PSYCHOLOGY OF WOMEN (Change Prerequisite)
  Current Prerequisite: Psyc 1101 with grade of C or higher, or equivalent.
  Proposed Prerequisite: Psyc 1101 and Psyc 3510 with grades of C or higher, or equivalent.

- PSYC 9960A TEACHING SUPERVISION A (Change Title, Change Description)
  Proposed Title: Teaching Supervision

  Current Description: Teaching supervision A. This course provides supervision and teaching development and support for graduate students who are teaching a course for the first time.

  Proposed Description: This course provides supervision and teaching development and support for graduate students who are serving as Graduate Teaching Assistants and instructors of record for their own course. Sign up for 3 credits of 9960A if you are teaching a course for the first time, no matter how many times you have taught other courses. Sign up for 1 credit of 9960B if you are teaching the same course you have taught before.

- PSYC 9960B PRACTICUM: ADVANCED TEACHIGN (Change Title, Change Description)
  Proposed Title: Advanced Teaching Supervision

  Current Description: Practicum in Psychology: Advanced Teaching. Provides supervision and teaching development for graduate students on an ongoing basis.
Proposed Description: Advanced Teaching Supervision. Provides supervision and teaching development for graduate students serving as Graduate Teaching Assistants and instructors of record for courses in psychology. Sign up for one credit of 9960B if you are teaching a course you have taught before. Sign up for three credits of 9960A if you have never taught the course before, no matter how many times you have taught another course.

**RELIGIOUS STUDIES**

**ADD**

- RELS 3100 UTOPIAS AND DYSTOPIAS 3.0
  Utopia and Dystopias. Utopia and dystopia being antonyms, can be viewed as mirror images of each other. However, records of utopic imaginings are as old as human writing, whereas, the earliest published dystopic works do not date back before the nineteenth century. We will examine this conundrum in light of the following questions: What is the relationship of utopic and dystopic imaginaries to the historical circumstances in which they are/were conceived? This will enable us to explore the ways in which the following themes figure in the two genres: labour, sexuality and reproduction, finitude of natural resources, the best form of social organization and the ideal political structure to bring it into existence. The course will draw on religious texts, works of political philosophy, novels, short-stories, films, and supplementary historical essays.

  *Curriculum Committee notes: Requested a shorter course description.*

- RELS 4150/6150 RELIGION, NATION, AND LAW 3.0
  Religion, Nation, and Law
  This course will explore the relationship between religion, law, and nation-building through an exploration of the following questions: i) In what ways are nation-states and empires different political formations? ii) What role does religion play in each? iii) What is secularism? iv) What is the relationship of the ‘religious’ to the ‘secular’ in the particular context of law? These questions will be examined through a comparison of the legal recognition of religious minorities and personal status legal systems in empires and nation-states. Readings will draw from the disciplines of religious studies, law, history, anthropology, and gender studies. Case studies will include: the Ottoman Empire, France, Algeria, Israel, Palestine, Iraq, Syria Lebanon, and Thailand.

  *Curriculum Committee notes: Requested a shorter course description.*
SOCIOLOGY

CHANGE

- SOCI 3010 SOCIAL STATISTICS (Change Prerequisites)
  Current Prerequisites: None
  Proposed Prerequisites: Math 1070, 1101, 1111, 1113 or 1220 with grade C or higher.

- SOCI 3030 SOCIOLOGICAL THEORY (Change Prerequisites)
  Current Prerequisites: None
  Proposed Prerequisites: Soci 1101 with grade of C or higher, or equivalent.

- SOCI 4800 GENERAL SOCIOLOGY-CTW (Change Prerequisites)
  Current Prerequisites: None
  Proposed Prerequisites: Soci 1101 with grade of C or higher, or equivalent.

WOMEN’S GENDER AND SEXUALITY STUDIES

ADD

- WGSS 4770/6770 GENDER & SEX AFRICAN DIASPORA 3.0
  Gender and Sexuality in the African Diaspora.
  Prerequisite: WGSS 2010 with a grade of C or better. Crosslisted with WGSS 6770. How might we (re) theorize gender and sexuality if we use the African Diaspora as our point of departure? During this course we will think about the kinds of conceptual tools: questions, methods, theories, histories, geographies, time periods, and social/cultural movements needed in order to understand the dynamic and shifting terrain of gender and sexuality in the African Diaspora. Colonialism, slavery, social movements as well as transnational circuits of music, self-expression, desire and consumption/production will frame our approach to theorizing gender and sexuality in the actual and imagined spaces of the African Diaspora.

- WGSS 8010 AFFECT AND CULTURAL POLITICS 3.0
  Affect and Cultural Politics.
  In recent years, the so-called ‘affective turn’ has appeared in critical thought across disciplines and areas of inquiry. Some attribute its emergence to legacies of earlier feminist challenges of the binaries of reason/emotion and mind/body; others suggest that it is an artifact of the sociopolitical moment in which we live. Distinguished from but not unrelated to emotions, affect is often conceptualized as the capacity to affect and to be affected. It indexes corporeality, relationality, potentiality, intensities, circulations, assemblages, trajectories, and movements. In this course, we will evaluate how
conceptualizations of affect might be relevant to contemporary theoretical, cultural, social, and political problems, issues, and questions. Through broad reading of texts inspired by ideas of affect, we will evaluate the extent to which, and ways in which, affect enables analysis of multiple realms, including mass and popular culture (film, TV, music, performance), literature, visual art and aesthetics, scenes of activism, the body, modernity, globalization, gender, sexuality, nationalisms, the ‘war on terror,’ knowledge, research, and more. As part of our study, we will read about specific affects (or emotions, depending on who is writing or speaking), including shame, happiness, optimism, nostalgia, loss, belonging, grief, hope, fear, bureaucratic rage, political depression, statistical panic, and more. We will ask such questions as: What is affect? Why affect now? How does affect relate to emotion or feeling? Can one historicize affect? What does affect do? And why does it matter?

Curriculum Committee notes: Requested a shorter course description.

CHANGE

- WGSS 8005 WOMEN’S STUDIES PROSEMINAR (Change Title, Change Description)
  Proposed Title: Proseminar in WGSS
  Current Description: Women's Studies Proseminar. Introduction to discipline-specific research skills and socialization experiences in Women's Studies. Open only to Women's Studies Institute M.A. students, and required for all first-year WSI M.A. students. Students take Part A of this year-long course in Fall for 1 credit hour, and Part B in the Spring for 2 credit hours. Students are required to attend certain departmental events in addition to class sessions.
  Proposed Description: Proseminar in Women's, Gender, and Sexuality Studies. Introduction to discipline-specific research skills and socialization experiences in women's, gender, and sexuality studies. Required for all first-year WGSS M.A. students. Students take Part A of this year-long course in Fall for 1 credit hour, and Part B in the Spring for 2 credit hours. Students are required to attend certain departmental events in addition to class sessions.