I. Approval of CUSA Minutes from September 27, 2011 (October 11, 2011 CUSA meeting was canceled)

II. Chair’s Report

III. Dean’s Office Report

IV. CLA&S Student Academic Services Report

V. Subcommittee Chair Reports
   A. Advising & Awards
      1. Award for Excellence in Undergraduate Advising - Psychology
   B. Curricular Changes/Degree Requirements
      1. Curricular Changes for Approval:
         NEW COURSES: ABSC 470, ABSC 682, BIOL 648, CLSX 515, CLSX 516, ITAL 103, ITAL 203, HIST 124, SLAV 626, WGSS 515, WGSS 516
         CHANGES: BIOL 440, BIOL 550(428), EVRN 460, ATMO 699, LAA 100, SLAV 522, PORT 509, SPAN 300, SPAN 326, SPAN 328, SPAN 428, SPAN 464, SPAN 550, SPAN 560, SPAN 570
         DELETIONS: BIOL 631, CHEM 631, CLSX 315, WGSS 315
         OLD BUSINESS: GEOG 500
         Curricular Changes Motion to File: NONE
      2. Degree Requirements for Approval:
         a. New Option within Applied Behavioral Science BA and BGS – Organizational Behavior Management and Research Practice
         b. Change to Existing BA Biochemistry Major
         c. Change to Existing BS Biochemistry Major
         d. Change to Existing BS Biology – Genetics Major
         e. Change to Existing BA Biology Major
         f. Change to Existing BA Human Biology Major
         g. Change to Existing BS Biology – Ecology and Evolutionary Biology Major
         h. Change to Existing BS Biology – Organismal Major
         i. Change to Existing BS Biology – Teaching Biology Major
         j. Change to Existing BS Geography – Geographical Information and Analysis Major
         k. Change to Existing Mathematics Major
         l. Change to Existing BA Slavic Languages and Literatures Major
OLD BUSINESS:

a. Change to Existing Geography Major – BA and BGS
b. Change to Existing Geography Major – BS – Physical option

C. Academic Standards Report

VI. New Business
Advising & Awards

1. Award for Excellence in Undergraduate Advising
   PSYCHOLOGY

For those who administer this award for the College, here are some issues that arose in our discussion:

1. There was strong sentiment that most College Departments are doing the best they can with limited resources, and that different advising models are appropriate in different departments. It was pointed out that the Psychology Department has the extra support of an advising specialist, and, initially, we seriously considered dividing the award between Linguistics, for creating and nurturing a culture for advising, and Psychology, for innovation in advising.

2. After further discussion, development of the PSYC 102 Orientation Seminar in Psychology seemed especially worthy of recognition, and we were also impressed by the Psychology Department's collaboration with the University Career Center and the substantial letters of support from their students.

3. We request that innovations, like PSYC 102, and best advising practices, like the possibility of collaborating with the University Career Center, be shared with all departments in the College.

4. For the future, we trust the gap between the time departments apply for this award, and when we consider their applications, will be reduced.

5. Our subcommittee also reviews student applications for College Scholarships in the spring, and it was recommended that departments apply earlier for this award, ideally in October, perhaps after fall break. [Now, I see the deadline for all the College faculty, graduate student and department awards is also in March, and understand it may be awkward to have a different deadline. If you can hold departments to a March 1st deadline, we might have a chance to review their applications before April, when the bulk of the scholarship application reviews hit.]

6. The subcommittee would like more data with which to evaluate the relative resources of departments, like the ratio of faculty to majors, and evidence for the effectiveness of a department's advising, like average time to graduation for their majors or % graduating in four years, and average GPA at graduation. Improvements in these outcomes would be especially interesting.

7. For the future, the subcommittee would appreciate a more standardized application format, including prompts to include more outcome data. After wading through the Psychology Department's 58-page application, a 15-page application limit was suggested.

We would welcome the opportunity to talk with you more about these suggestions.

Curricular Changes/Degree Requirements

1. Curricular Changes for Approval/Motion to File

   APPLIED BEHAVIORAL SCIENCE

CHANGE: NEW COURSE
This course offers detailed discussion of the organizational behavior management (OBM) literature including performance management, behavioral systems analysis, and behavior-based safety. This course also addresses empirically supported staff training procedures and research in implementation science. Students assist with OBM-relevant research and develop skills in both translational and applied OBM research. Prerequisite: ABSC 100.

**CHANGE: NEW COURSE**

**ABSC 682 ORGANIZATIONAL BEHAVIOR MANAGEMENT PRACTICUM 1-5 S**

This practicum course is designed to provide training and support practice in addressing socially significant problems and goals of community-based organizations using behavior analysis to guide assessment and intervention. Additionally, this course promotes community-university partnerships to support change and improvement in organizations through service learning. All practicum students are required to have previously completed ABSC 100 and selected applied behavioral science as a major or minor.

**BIOLOGY**

**CHANGE: PREREQUISITE**

**BIOL 440 ADVANCED HUMAN ANATOMY 6 N**

(OLD) Integrated lecture and laboratory course designed to provide students with a detailed understanding of the structure of the human body. Cadaver dissection will reinforce three-dimensional relationships discussed in lecture and each of the main organ systems will be considered using a regional approach to the body. Not open to students who have taken BIOL 240. Prerequisite: BIOL 152. LEC

**BIOL 440 ADVANCED HUMAN ANATOMY 6 N**

(NEW) Integrated lecture and laboratory course designed to provide students with a detailed understanding of the structure of the human body. Cadaver dissection will reinforce three-dimensional relationships discussed in lecture and each of the main organ systems will be considered using a regional approach to the body. Prerequisite: BIOL 152 or equivalent; BIOL 240, 241, or 242; and instructor consent.

**CHANGE: COURSE DESCRIPTION NUMBER**

**BIOL 550 INTRODUCTION TO SYSTEMATICS 3 N**

(OLD) Basic elements of systematic theory and practice; discussion of the needs and aims of taxonomy; species and speciation; principles of nomenclature and classification; phylogenetic reconstruction; evolutionary processes and patterns of species diversity; analysis of systematic evidence; construction of keys, synopses, monographs, and revisions. Prerequisite: BIOL 152 or BIOL 153. Not intended for graduate students planning to specialize in systematics. LEC Prerequisite:

**BIOL 428 INTRODUCTION TO SYSTEMATICS 3 N**

(NEW) Basic elements of systematic theory and practice; phylogenetic reconstruction using morphological and molecular data; interpretation of phylogenetic hypotheses; principles of nomenclature and classification; evolutionary processes and patterns of species diversity; discussion of the aims and needs of taxonomy; species and speciation; construction of keys; significance of biological collections. Prerequisite: BIOL 152 or BIOL 153. Not intended for students with advanced systematics background.

**CHANGE: DELETE COURSE**

**BIOL 631 BIOMOLECULAR MODELING AND SIMULATION 3 N**

Computational biology course designed to introduce the most important and basic concepts, methods, and tools used in biomolecular modeling and computer simulations. Topics include (but are not limited to) molecular mechanics, minimization, molecular dynamics, Monte Carlo simulation, explicit and implicit solvation, continuum electrostatics, statistical mechanics, advanced sampling techniques, and free energy calculations. The understanding of these concepts and algorithms as well as their applications to well-defined practical examples involving currently important biological problems are emphasized. The class is divided into a 2-hour lecture and 1-hour computer laboratory. (Same as CHEM 631.) Prerequisite: CHEM 184 and 188; MATH 115 or MATH 121; PHSX 114 and 115 or PHSX 211 and 212; Or permission of instructor. LEC
CHANGE: NEW COURSE
BIOL 648 SYSTEMATICS AND MACROEVOLUTION 3 N
An introduction to the theory of macroevolution and the fundamental principles of systematics. Intended for students planning to pursue advanced studies in organismal biology, evolution, and/or systematics. Topics in macroevolution will include hierarchy theory, species concepts, speciation and species selection. Methods of phylogenetic estimation will be discussed and include parsimony, Maximum likelihood and Bayesian inference. Evolutionary studies utilizing phylogenies including tests of homology, studies of character evolution, and biogeography will be discussed. An overview of classification and nomenclature will also be provided. Prerequisites: BIOL 412 or equivalent.

CHEMISTRY

CHANGE: DELETE COURSE
CHEM 631 BIOMOLECULAR MODELING AND SIMULATION 3 N
Computational biology course designed to introduce the most important and basic concepts, methods, and tools used in biomolecular modeling and computer simulations. Topics include (but are not limited to) molecular mechanics, minimization, molecular dynamics, Monte Carlo simulation, explicit and implicit solvation, continuum electrostatics, statistical mechanics, advanced sampling techniques, and free energy calculations. The understanding of these concepts and algorithms as well as their applications to well-defined practical examples involving currently important biological problems are emphasized. The class is divided into a 2-hour lecture and 1-hour computer laboratory. (Same as BIOL 631.) Prerequisite: CHEM 184 and 188; MATH 115 or MATH 121; PHSX 114 and 115 or PHSX 211 and 212; Or permission of instructor. LEC

CLASSICS

CHANGE: DELETE COURSE
CLSX 315 WOMEN IN ANCIENT ART AND SOCIETY 3 H
A survey of the role of women in the civilizations of the Mediterranean, with emphasis on the Greek, Etruscan, and Roman, as documented in the literary and visual record. Included will be a consideration of such topics as matriarchy and important figures such as Sappho, Cleopatra, and Agrippina. No knowledge of Greek or Latin is required. (Same as WGSS 315)

CHANGE: NEW CROSS-LISTED COURSE
CLSX 515 GENDER AND SEXUALITY IN GREEK CULTURE 3 H
This course explores various approaches to the study of gender and sexuality in Greek antiquity. Contents will vary, and the course may focus on methodology and case studies, or on particular themes, historical periods, or artistic or literary genres. No knowledge of Greek or Latin is required. Prerequisite: Graduate status, or 6 credit hours in Classics, Greek, Latin, or Women, Gender and "Sexuality Studies; or permission of instructor. (Same as WGSS 515)

CHANGE: NEW CROSS-LISTED COURSE
CLSX 516 GENDER AND SEXUALITY IN ROMAN CULTURE 3 H
This course explores various approaches to the study of gender and sexuality in Roman antiquity. Contents vary, and the course may focus on methodology and case studies, or on particular themes, historical periods, or artistic or literary genres. No knowledge of Greek or Latin is required. Prerequisite: Graduate status, or 6 credit hours in Classics, Greek, Latin, or Women, Gender and "Sexuality Studies; or permission of instructor. (Same as WGSS 516)

ENVIRONMENTAL STUDIES

CHANGE: PREREQUISITE
EVRN 460 FIELD ECOLOGY 3 N
(OLD) Provides practical experience in the characterization of a diversity of ecosystem types; lakes, streams, forests, and prairies. This course is writing intensive, and designed for Environmental Studies majors. Prerequisite: EVRN/GEOG 148/149; EVRN/HIST 103, EVRN/HIST 347 or EVRN/GEOG 150; Junior Standing. Restricted to declared Environmental Studies majors.
EVRN 460 FIELD ECOLOGY 3 N  
(NEW) Provides practical experience in the characterization of a diversity of ecosystem types; lakes, streams, forests, and prairies. This course is writing intensive, and designed for Environmental Studies majors. Prerequisite: EVRN/GEOG 148/149; EVRN/HIST 103, EVRN/HIST 347 or EVRN/GEOG 150; Senior standing. Restricted to declared Environmental Studies majors.

FRENCH AND ITALIAN

CHANGE: NEW COURSE  
ITAL 103 ELEMENTARY ITALIAN LANGUAGE AND CIVILIZATION 3 H  
A systematic review of the fundamentals of Italian grammar through practice in conversation and writing, with an introduction to Italian culture. Available only to participants in study abroad programs. This course does not satisfy the College of Liberal Arts and Sciences foreign language requirement. No prerequisite.

CHANGE: NEW COURSE  
ITAL 203 INTERMEDIATE ITALIAN LANGUAGE AND CIVILIZATION 3 H  
A systematic review of Italian grammar through practice in conversation and composition, with an introduction to Italian culture. Available only to participants in study abroad programs. This course does not satisfy the College of Liberal Arts and Sciences foreign language requirement. Prerequisite: ITAL 120.

GEOGRAPHY

CHANGE: COURSE DESCRIPTION PREREQUISITE  
ATMO 699 UNDERGRADUATE RESEARCH 2 U  
(OLD) Prerequisite: Twelve credit hours in meteorology.  
ATMO 699 UNDERGRADUATE RESEARCH 2 U  
(NEW) Work on a research project under the supervision of a faculty member. Prerequisite: Nine credit hours in atmospheric science. May be taken up to three times for credit.

HISTORY

CHANGE: NEW CROSS-LISTED COURSE  
HIST 124 LATIN AMERICAN CULTURE AND SOCIETY 3 SC, S  
An introduction to the interdisciplinary study of Latin America, as manifest in the arts and literature, history, and in environmental, political, economic, and social realities. Explores and critiques the principal themes and methodologies of Latin American Studies, with an aim towards synthesizing contributions from several different disciplines. Emphasizes the unique insights and perspectives made possible by interdisciplinary collaboration and provides students with the basic knowledge base for understanding Latin America today. (Same as LAA 100) LEC

LATIN AMERICAN STUDIES

CHANGE: NEW REQUEST TO CROSSLIST  
LAA 100 LATIN AMERICAN CULTURE & SOCIETY 3 SC, S  
(OLD) An introduction to the interdisciplinary study of Latin America, as manifest in the arts & literature, history, and in environmental, political, economic, and social realities. Explores and critiques the principal themes and methodologies of Latin American Studies, with an aim towards synthesizing contributions from several different disciplines. Emphasizes the unique insights and perspectives made possible by interdisciplinary collaboration and provides students with the basic knowledge base for understanding Latin America today. LEC

LAA 100 LATIN AMERICAN CULTURE AND SOCIETY 3 SC, S  
(NEW) An introduction to the interdisciplinary study of Latin America, as manifest in the arts & literature, history, and in environmental, political, economic, and social realities. Explores and critiques the principal themes and methodologies of Latin American Studies, with an aim towards synthesizing contributions from several different disciplines. Emphasizes the unique insights and perspectives
made possible by interdisciplinary collaboration and provides students with the basic knowledge base for understanding Latin America today. (Same as HIST 124) LEC

### SLAVIC LANGUAGES AND LITERATURES

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<tr>
<td><strong>SLAV 522</strong>&lt;br&gt;(OLD)</td>
<td>RUSSIAN DERIVATIONAL MORPHOLOGY, SYNTAX, AND LEXICOLOGY 3 H</td>
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<td>An analysis of morphosyntax and the lexicon in contemporary standard Russian, with emphasis on the sentence and its elements. Designed as a continuation of SLAV 520. Graduate students enrolled in this course will be held to a more stringent curriculum and grading system. Prerequisite: Two years of Russian language study or the equivalent. LEC</td>
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<tr>
<td><strong>SLAV 522</strong>&lt;br&gt;(NEW)</td>
<td>THE GRAMMATICAL CATEGORIES OF RUSSIAN: LINGUISTIC UNITS, FUNCTIONS AND MEANINGS 3 H</td>
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<td>This course covers the main grammatical categories of Russian, including word formation, case, animacy, voice and reflexive verbs, imperatives, aspect, and word order. It is intended not only for linguists but anyone seeking a better understanding of the grammatical systems of Russian. Designed as a continuation of SLAV 520. Prerequisite: Two years of Russian language study or the equivalent. LEC</td>
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### SPANISH AND PORTUGUESE

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<tr>
<td><strong>PORT 509</strong>&lt;br&gt;(OLD)</td>
<td>PHONETICS 2 H W</td>
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<td>A study of the phonology of the carioca (Rio de Janeiro) dialect of Brazilian Portuguese, and an introduction to other major Brazilian and Portuguese dialects. Prerequisite: Nine hours of Portuguese, or consent of instructor. LEC</td>
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<td><strong>PORT 509</strong>&lt;br&gt;(NEW)</td>
<td>PORTUGUESE PHONETICS AND PHONOLOGY 3 H W</td>
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<td>A study of the phonology of the carioca (Rio de Janeiro) dialect of Brazilian Portuguese, and an introduction to other major Brazilian and Portuguese dialects. Prerequisite: Nine hours of Portuguese, or consent of instructor. LEC</td>
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<td><strong>SPAN 300</strong>&lt;br&gt;(OLD)</td>
<td>THE ORIGINS AND DEVELOPMENT OF SPANISH AMERICAN CULTURE 3 HL, H</td>
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<td>The development of social and cultural patterns in Spanish America, and their relationship to economic issues and personal values. A topical study of the historical development of Spanish American institutions will be followed by an examination of twentieth-century cultural patterns. Special emphasis on Mexico. Most of the readings will be in English. Will not count toward the Spanish major. Prerequisite: SPAN 108, or SPAN 109, or SPAN 111, or two years of high school Spanish. LEC</td>
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<td><strong>SPAN 300</strong>&lt;br&gt;(NEW)</td>
<td>DEVELOPMENTS IN HISPANIC CULTURES 3 HL, H</td>
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<td>The development of social and cultural patterns in the Spanish-speaking world, including the intersection of those patterns with issues related to politics, economics and/or personal values. Assigned readings may be in English or in Spanish. Does not count toward the Spanish major. Prerequisite: SPAN 108, SPAN 109, or SPAN 111; or two years of high school Spanish. LEC</td>
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<td><strong>SPAN 326</strong>&lt;br&gt;(OLD)</td>
<td>SPANISH FOR HEALTH CARE WORKERS 3 U</td>
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| | This course is designed to provide students with the linguistic and cultural competencies necessary to communicate with and help treat Spanish speaking patients with limited English proficiency. Includes a general review of pertinent grammar, specific vocabulary groups relating to assessment and care of
patients, vocabulary to establish rapport, and discussions leading to cultural competencies. Prerequisite: Completion of Spanish 216 with a grade of C or better. Prerequisite:

**SPAN 326**  
**SPANISH FOR HEALTH CARE WORKERS**  
This course is designed to provide students with the linguistic and cultural competencies necessary to communicate with and help treat Spanish speaking patients with limited English proficiency. Includes a general review of pertinent grammar, specific vocabulary groups relating to assessment and care of patients, vocabulary to establish rapport, and discussions leading to cultural competencies. Not open to students who have completed SPAN 424 or above. Prerequisite: Completion of Spanish 216 with a grade of C or better.

**CHANGE: PREREQUISITE**

**SPAN 328**  
**INTERMEDIATE SPANISH CONVERSATION**  
Conversational reinforcement of topics presented in SPAN 324 with an emphasis on oral communication skills in a cultural context. Concurrent enrollment in SPAN 324 required. Two class meetings per week. Not available to study abroad participants. Prerequisite: Grade of B or better in SPAN 216/217 or SPAN 220

**SPAN 328**  
**INTERMEDIATE SPANISH CONVERSATION**  
Conversational reinforcement of topics presented in SPAN 324 with an emphasis on oral communication skills in a cultural context. Concurrent enrollment in SPAN 324 required. Two class meetings per week. Not available to study abroad participants. Prerequisite: SPAN 216 or SPAN 217 with a grade of "C" or higher; or SPAN 220; or SPAN 322; or consent of instructor.

**CHANGE: PREREQUISITE**

**SPAN 428**  
**ADVANCED SPANISH CONVERSATION**  
Emphasis on developing fluid expression of opinions, ideas, and points of view through discussion of selected texts and cultural materials. Two class meetings per week. Concurrent enrollment in SPAN 424 recommended. Prerequisite: SPAN 340 with a grade of B or better, or equivalent. Emphasis on developing fluid expression of opinions, ideas, and points of view through discussion of selected texts and cultural materials. Two class meetings per week. Concurrent enrollment in SPAN 424 recommended. Prerequisite: SPAN 340 with a grade of B or better, or equivalent.

**SPAN 428**  
**ADVANCED SPANISH CONVERSATION**  
Emphasis on developing fluid expression of opinions, ideas, and points of view through discussion of selected texts and cultural materials. Two class meetings per week. Concurrent enrollment in SPAN 424 recommended. Prerequisite: SPAN 340 or consent of instructor. A grade of "C" or higher in SPAN 340 is strongly recommended for students enrolling in this course.

**CHANGE: PREREQUISITE**

**SPAN 464**  
**READING AND ANALYSIS OF U.S. LATINO/A LITERATURES:**  
The course covers multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 340 with a grade of B or better; or consent of instructor.

**SPAN 464**  
**READING AND ANALYSIS OF U.S. LATINO/A LITERATURES:**  
The course covers multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 340 or consent of instructor. A grade of "C" or better in SPAN 340 is strongly recommended for students enrolling in this course.

**CHANGE: PREREQUISITE**

**SPAN 550**  
**COLLOQUIUM ON SPANISH FILM**  
A theoretical and historical exploration of Spanish cinema with particular attention devoted to the films of Berlanga, Buuel, Gutierrez Aragn, Saura, Erice, and Almdovar. Students will be expected to attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish courses.

**SPAN 550**  
**COLLOQUIUM ON SPANISH FILM**  
A theoretical and historical exploration of Spanish cinema with particular attention devoted to the films of Berlanga, Buuel, Gutierrez Aragn, Saura, Erice, and Almdovar. Students are expected to
attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish literature courses.

**CHANGE: PREREQUISITE**

**SPAN 560 COLLOQUIUM ON LATIN AMERICAN FILM  3  H**
(OLD) An overview of Latin American cinema from its origins to the present with particular attention to thematic concerns, such as cultural and national identity, and of literary discourse. Students will be expected to attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish courses.

**SPAN 560 COLLOQUIUM ON LATIN AMERICAN FILM  3  H**
(NEW) An overview of Latin American cinema from its origins to the present with particular attention to thematic concerns, such as cultural and national identity, and of literary discourse. Students are expected to attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish literature courses.

**CHANGE: COURSE DESCRIPTION  PREREQUISITE**

**SPAN 570 STUDIES IN HISPANIC LINGUISTICS: _____  3  U**
(OLD) Theoretical and applied analysis of one or more of the following components of the Spanish language: phonology/phonetics, morphology, syntax, semantics, pragmatics. Available only to study abroad participants. May be repeated for credit if content varies. Prerequisite: SPAN 424.

**SPAN 570 STUDIES IN HISPANIC LINGUISTICS: _____  3  U**
(NEW) Theoretical and applied analysis of one or more of the following components of the Spanish language: phonology/phonetics, morphology, syntax, semantics, pragmatics. May be repeated for credit if content varies. Prerequisite: SPAN 424 and SPAN 428.

**WOMEN, GENDER AND SEXUALITY STUDIES**

**CHANGE: DELETE COURSE**

**WGSS 315 WOMEN IN ANCIENT ART AND SOCIETY  3  H**
A survey of the role of women in the civilizations of the Mediterranean, with emphasis on the Greek, Etruscan, and Roman, as documented in the literary and visual record. Included will be a consideration of such topics as matriarchy and important figures such as Sappho, Cleopatra, and Agrippina. No knowledge of Greek or Latin is required. (Same as CLSX 315)

**CHANGE: NEW CROSS-LISTED COURSE**

**WGSS 515 GENDER AND SEXUALITY IN GREEK CULTURE  3  H**
This course explores various approaches to the study of gender and sexuality in Greek antiquity. Contents will vary, and the course may focus on methodology and case studies, or on particular themes, historical periods, or artistic or literary genres. No knowledge of Greek or Latin is required. Prerequisite: Graduate status, or 6 credit hours in Classics, Greek, Latin, or Women, Gender and "Sexuality Studies; or permission of instructor. (Same as CLSX 515)

**CHANGE: NEW CROSS-LISTED COURSE**

**WGSS 516 GENDER AND SEXUALITY IN ROMAN CULTURE  3  H**
This course explores various approaches to the study of gender and sexuality in Roman antiquity. Contents vary, and the course may focus on methodology and case studies, or on particular themes, historical periods, or artistic or literary genres. No knowledge of Greek or Latin is required. Prerequisite: Graduate status, or 6 credit hours in Classics, Greek, Latin, or Women, Gender and "Sexuality Studies; or permission of instructor. (Same as CLSX 515)
OLD BUSINESS

GEOGRAPHY

CHANGE: NEW COURSE
GEOG 500 SENIOR CAPSTONE IN GEOGRAPHY 3 N
The capstone project provides students with a broad-based, interdisciplinary educational experience and allows them to integrate and synthesize the knowledge they have gained in their studies. The course is designed to achieve several objectives: provide an overview of geography as a unified, coherent discipline with multiple perspectives, emphasize writing and analytical skills, introduce students to a major research project that integrates elements of physical and human geography, and cultivate knowledge of future professional development. Graduate students may take this course by permission only. Prerequisite: 9 hours in Geography and status as a senior major in the department; or permission of instructor.

2. Degree Requirements for Approval

  a. New Option within Existing BA and BGS in Applied Behavioral Science – Organizational Behavior Management and Research Practice

Proposal
ORGANIZATIONAL BEHAVIOR MANAGEMENT RESEARCH & PRACTICE
This specialty area is for students interested in studying the application of behavioral principles to people and groups in business, industry, government, and human service settings. This specialty area includes courses in behavior analysis, research methods, and organizational behavior management with a focus on its three sub-disciplines including performance management, systems analysis, and behavior-based safety. The program culminates in practica that provide students with direct experiences improving employee behavior, work safety, or organizational systems within businesses in the community. Students completing this program will gain knowledge and experience in the areas of behavior analysis, management, staff training, and systems-level interventions. Careers: This area is relevant for students interested in behavioral consulting, management, human services, and business.

Requirements
Introductory Course (3 hours)
ABSC 100 Introduction to Applied Behavioral Science (3), or  
ABSC 101 Introduction to Applied Behavioral Science, Honors (3)

Core Courses (10 hours)
ABSC 304 Principles and Procedures of Behavior Modification and Therapy (3)  
ABSC 308 Research Methods and Applications (4)  
ABSC 509 Contemporary Behavioral Science (3)

Required Specialty Area Courses (6 hours)
ABSC 150 Community Leadership (3 hours)  
ABSC 470 Organizational Behavior Management (3 hours)

Specialty Area Electives (8 hours). Any junior-senior level courses approved by your advisor. Students should select electives that will prepare them for the type of employment setting they envision themselves working or consulting.
ABSC 310 Building Healthy Communities (3)  
ABSC 350 Behavioral Treatment of Children with Autism (3)
ABSC 405  Children and Media (3)
ABSC 410  Behavioral Approaches in Working with Adolescents (3)
ABSC 486  Issues in Parenting (3)
ABSC 535  Developmental Psychopathology (3)
ABSC 535  Applied Developmental Psychopathology (3)
ABSC 796  Laboratory in Behavioral Development and Modification (3)
ABSC 861  Applied Behavioral Analysis (3)
ABSC 893  Behavioral Consultation (3)

**Practicum**
(3-5 hours per course for a total of 6-10 hours). This practicum requires a two-semester commitment, beginning in the Fall semester and continuing in the Spring semester. Space may be limited and enrollment may depend on the date of indication of interest. No more than 6 hours of practicum apply to the major.

ABSC 682 – Organizational Behavior Management Practicum (to be taken in two consecutive semesters in order to complete the practicum requirement)

**Faculty Members:** Professor Florence DiGennaro Reed (practicum supervisor in italics).

**WEBSITES FOR RELEVANT PROFESSIONAL AND SERVICE ORGANIZATIONS**

**Behavior Analysis**
- [www.abainternational.org](http://www.abainternational.org)
- [www.bacb.com](http://www.bacb.com)

**Organizational Behavior Management**
- [http://www.obmnetwork.com/](http://www.obmnetwork.com/)

**Implementation Science**
- [http://www.fpg.unc.edu/~nirn/](http://www.fpg.unc.edu/~nirn/)

**Justification**
This specialty area is relevant to students’ interests and may provide additional career opportunities. A new faculty member would like to add new areas of study to the department.

b. Change to Existing BA Biochemistry Major

**Proposal**
The new requirements will move CHEM 640 Biological Physical Chemistry (3 hrs.) from the general science requirements to the biochemistry requirements.

**Requirements**

**B. A. Biochemistry major**

Current requirements (in part) include:

**General Science Requirements (35–39 hrs.):**

CHEM 184 Foundations of Chemistry I (5 hrs.)
CHEM 188 Foundations of Chemistry II (5 hrs.)
CHEM 624 Organic Chemistry I (3 hrs.)
CHEM 625 Organic Chemistry I lab (2 hrs.)
CHEM 626 Organic Chemistry II (3 hrs.)
CHEM 640 Biological Physical Chemistry (3 hrs.)
MATH 115 & MATH 116 Calculus I & II (6 hrs.) OR
MATH 121 & MATH 122 Calculus I & II (10 hrs.)
PHSX 211 & PHSX 212 General Physics I & II (8 hrs.) OR
PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

**Biochemistry Requirements (25 hrs.):**

BIOL 150 (or BIOL 151, Honors) Principles of Molecular & Cellular Biology (4 hrs.)
BIOL 152 (or BIOL 153, Honors) Principles of Organismal Biology (4 hrs.)
BIOL 350 Principles of Genetics (3 hrs.)
BIOL 636 Biochemistry I (3 hrs.)
BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)
BIOL 638 Biochemistry II (3 hrs.)
BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)
BIOL 672 Gene Expression (3 hrs.)
BIOL 599 Senior Seminar: Biochemistry (*must be taken in senior year*) (1 hr.)

The new requirements (in part) include:

**General Science Requirements (32–36 hrs.):**

CHEM 184 Foundations of Chemistry I (5 hrs.)
CHEM 188 Foundations of Chemistry II (5 hrs.)
CHEM 624 Organic Chemistry I (3 hrs.)
CHEM 625 Organic Chemistry I lab (2 hrs.)
CHEM 626 Organic Chemistry II (3 hrs.)
MATH 115 & MATH 116 Calculus I & II (6 hrs.) OR
MATH 121 & MATH 122 Calculus I & II (10 hrs.)
PHSX 211 & PHSX 212 General Physics I & II (8 hrs.) OR
PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

**Biochemistry Requirements (28 hrs.):**

BIOL 150 (or BIOL 151, Honors) Principles of Molecular & Cellular Biology (4 hrs.)
BIOL 152 (or BIOL 153, Honors) Principles of Organismal Biology (4 hrs.)
BIOL 350 Principles of Genetics (3 hrs.)
BIOL 636 Biochemistry I (3 hrs.)
BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)
BIOL 638 Biochemistry II (3 hrs.)
BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)
BIOL 672 Gene Expression (3 hrs.)
BIOL 599 Senior Seminar: Biochemistry (*must be taken in senior year*) (1 hr.)
CHEM 640 Biological Physical Chemistry (3 hrs.)

**Justification**

We request the move of CHEM 640 from the general science requirements to the biochemistry requirements due to its being a specific, integral component of the biochemistry major.

c. **Change to Existing BS Biochemistry Major**

**Proposal**

The new requirements will add CHEM 517 Analytical Chemistry Laboratory (2 hrs.) to the Biochemistry requirements and will move CHEM 516 Analytical Chemistry (3 hrs.), CHEM 640 Biol. Physical Chem. (3), and CHEM 646 Physical Chem. (3 hrs.) from the general science requirements to the Biochemistry requirements.
B. S. Biochemistry major

Current requirements (in part) include:

**General Science Requirements (44 hrs.):**

- CHEM 184 Foundations of Chemistry I (5 hrs.)
- CHEM 188 Foundations of Chemistry II (5 hrs.)
- CHEM 516 Analytical Chemistry (3 hrs.)
- CHEM 624 Organic Chem. I (3 hrs.)
- CHEM 625 Organic Chem. I lab (2 hrs.)
- CHEM 626 Organic Chem. II (3 hrs.)
- CHEM 627 Organic Chem. II lab (2 hrs.)
- CHEM 640 Biol. Physical Chem. (3 hrs.) OR
  CHEM 646 Physical Chem. (3 hrs.)
- MATH 121 & MATH 122 Calculus I & II (10 hrs.)
- PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.) OR
  PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

**Biochemistry Requirements (25 hrs.):**

- BIOL 150 (or 151, Honors) Principles of Molecular & Cellular Biology (4 hrs.)
- BIOL 152 (or 153, Honors) Principles of Organismal Biology (4 hrs.)
- BIOL 350 Principles of Genetics (3 hrs.)
- BIOL 636 Biochemistry I (3 hrs.)
- BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)
- BIOL 638 Biochemistry II (3 hrs.)
- BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)
- BIOL 672 Gene Expression (3 hrs.)
- BIOL 599 Senior Seminar: Biochemistry (must be taken in senior year) (1 hr.)

The new requirements (in part) include:

**General Science Requirements (38 hrs.):**

- CHEM 184 Foundations of Chemistry I (5 hrs.)
- CHEM 188 Foundations of Chemistry II (5 hrs.)
- CHEM 624 Organic Chem. I (3 hrs.)
- CHEM 625 Organic Chem. I lab (2 hrs.)
- CHEM 626 Organic Chem. II (3 hrs.)
- CHEM 627 Organic Chem. II lab (2 hrs.)
- MATH 121 & MATH 122 Calculus I & II (10 hrs.)
- PHSX 211 & PHSX 212 Gen. Physics I & II (8 hrs.) OR
  PHSX 114 & PHSX 115 College Physics I & II (8 hrs.)

**Biochemistry Requirements (33 hrs.):**

- BIOL 150 (or 151, Honors) Principles of Molecular & Cellular Biology (4 hrs.)
- BIOL 152 (or 153, Honors) Principles of Organismal Biology (4 hrs.)
- BIOL 350 Principles of Genetics (3 hrs.)
- BIOL 636 Biochemistry I (3 hrs.)
- BIOL 637 Introductory Biochemistry Laboratory (2 hrs.)
- BIOL 638 Biochemistry II (3 hrs.)
- BIOL 639 Advanced Biochemistry Laboratory (2 hrs.)
- BIOL 672 Gene Expression (3 hrs.)
- BIOL 599 Senior Seminar: Biochemistry (must be taken in senior year) (1 hr.)
CHEM 516 Analytical Chemistry (3 hrs.)
CHEM 517 Analytical Chemistry Laboratory (2 hrs.)
CHEM 640 Biological Physical Chemistry (3 hrs.) OR
CHEM 646 Physical Chemistry I (3 hrs.)

Justification
We request the addition of CHEM 517 to the biochemistry requirements, as the Department of Chemistry requires that students who enroll in CHEM 516 concurrently enroll in CHEM 517. We request the move of CHEM 516, 517, and 640/646 from the general science requirements to the biochemistry requirements due to their being specific, integral components of the biochemistry major.

d. Change to Existing BS Biology – Genetics Major

Proposal
We want to add Add BIOL 753 Advanced Genetics to the list of Genetics options and remove BIOL 611 and BIOL 692.

Requirements
The current B.S. Genetics major requires, in part, that students complete (as it appears in the Undergraduate Catalog)
* 2 courses from the following list: (6)
BIOL 512 General Virology
BIOL 518 Microbial Genetics
BIOL 595 Human Genetics
BIOL 611 Molecular Evolution/Systematics
BIOL 688 Molecular Biology of Cancer
BIOL 692 Developmental Genetics
BIOL 743 Population Genetics
BIOL 747 Quantitative Genetics
BIOL 755 Mechanisms of Development
ANTH 340 Human Variation and Evolution
ANTH 442 Anthropological Genetics
ANTH 652 Population Dynamics

The new requirements would read:
* 2 courses from the following list: (6)
BIOL 512 General Virology
BIOL 518 Microbial Genetics
BIOL 595 Human Genetics
BIOL 611 Molecular Evolution/Systematics
BIOL 688 Molecular Biology of Cancer
BIOL 692 Developmental Genetics
BIOL 743 Population Genetics
BIOL 747 Quantitative Genetics
BIOL 753 Advanced Genetics
BIOL 755 Mechanisms of Development
ANTH 340 Human Variation and Evolution
ANTH 442 Anthropological Genetics
ANTH 652 Population Dynamics

Justification
BIOL 753 Advanced Genetics is a new course in advanced genetics that would be appropriate for our undergraduate majors, and BIOL 611 and BIOL 692 are no longer offered on a consistent basis.

e. Change to Existing BA Biology Major
Proposal
We want to replace BIOL 550 Introduction to Systematics with BIOL 428 Introduction to Systematics.

Requirements
Current Biology Core Requirements (24-25 hours) for a B.A. in Biology are as follows (as they appear in the 2011-2012 Undergraduate Catalog):

- BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology (4)
- BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology (4)
- BIOL 350 Principles of Genetics (3)
- BIOL 412 Evolutionary Biology (3)
- BIOL 599 Senior Seminar: Biology (must be taken in senior year) (1)
  1 of the following 3 courses:
  - BIOL 413 History and Diversity of Organisms (3)
  - BIOL 414 Principles of Ecology (3)
  - BIOL 550 Introduction to Systematics (3)

The new requirements would read:

- BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology (4)
- BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology (4)
- BIOL 350 Principles of Genetics (3)
- BIOL 412 Evolutionary Biology (3)
- BIOL 599 Senior Seminar: Biology (must be taken in senior year) (1)
  1 of the following 3 courses:
  - BIOL 413 History and Diversity of Organisms (3)
  - BIOL 414 Principles of Ecology (3)
  - BIOL 428 Introduction to Systematics (3)

Justification
BIOL 428 Introduction to Systematics replaces BIOL 550 Introduction to Systematics. BIOL 550 has historically been difficult to teach because the breadth of prior knowledge and expectations for the class of the students enrolled. The numbering of BIOL 550 to be offered at the 400 level is intended to provide students with a more appropriate information content and depth of knowledge of systematics. BIOL 428 is aimed at sophomores or juniors with a more general biology background.

f. Change to Existing BA Human Biology Major
Proposal
We want to replace BIOL 550 Introduction to Systematics with BIOL 428 Introduction to Systematics.

Requirements
Current Core Requirements (minimum 32 hours) for a B.A. in Human Biology/Applied Behavioral Science subplan are as follows (as they appear in the 2011-2012 Undergraduate Catalog):

**Evolution, Culture, and Behavior category (9)**
- BIOL 412 Evolutionary Biology
- Six hours selected from the following courses:
  - ANTH 341 Human Evolution
  - ANTH 415 The Rise of Civilization
  - ANTH 650 Human Reproduction Biology and Behavior
  - ANTH 661 Cultural Dynamics
  - BIOL/GEOG 410 Human Biogeography Honors
  - BIOL 550 Introduction to Systematics
The new requirements would read:

**Evolution, Culture, and Behavior category (9)**
BIOL 412 Evolutionary Biology
**Six hours selected from the following courses:**
ANTH 341 Human Evolution
ANTH 415 The Rise of Civilization
ANTH 650 Human Reproduction Biology and Behavior
ANTH 661 Cultural Dynamics
BIOL/GEOG 410 Human Biogeography Honors

**BIOL 428 Introduction to Systematics**
BIOL 625 Behavioral Ecology and Sociobiology
BIOL 652 Comparative Animal Behavior

**Justification**
BIOL 428 Introduction to Systematics replaces BIOL 550 Introduction to Systematics. BIOL 550 has historically been difficult to teach because the breadth of prior knowledge and expectations for the class of the students enrolled. The numbering of BIOL 550 to be offered at the 400 level is intended to provide students with a more appropriate information content and depth of knowledge of systematics. BIOL 428 is aimed at sophomores or juniors with a more general biology background.

g. **Change to Existing BS Biology – Ecology & Evolutionary Major**

**Proposal**
We want to replace BIOL 550 Introduction to Systematics with BIOL 428 Introduction to Systematics.

**Requirements**
Current requirements for a B.S. in Biology with concentration in Ecology and Evolutionary Biology are as follows (as they appear in the 2011-2012 Undergraduate Catalog):

**Ecology and Evolutionary Biology Requirements (18 hours)**
BIOL 412 Evolutionary Biology (3)
BIOL 413 History and Diversity of Organisms (3)
BIOL 414 Principles of Ecology (3)
BIOL 415 Field and Laboratory Methods in Ecology (2)
BIOL 550 Introduction to Systematics (3)
BIOL 570 Introduction to Biostatistics (3)
BIOL 599 Senior Seminar: Cell Biology (must be taken in senior year) (1)

The new requirements would read:

**Ecology and Evolutionary Biology Requirements (18 hours)**
BIOL 412 Evolutionary Biology (3)
BIOL 413 History and Diversity of Organisms (3)
BIOL 414 Principles of Ecology (3)
BIOL 415 Field and Laboratory Methods in Ecology (2)
**BIOL 428 Introduction to Systematics (3)**
BIOL 570 Introduction to Biostatistics (3)
BIOL 599 Senior Seminar: Cell Biology (must be taken in senior year) (1)

**Justification**
BIOL 428 Introduction to Systematics replaces BIOL 550 Introduction to Systematics. BIOL 550 has historically been difficult to teach because the breadth of prior knowledge and expectations for the class of the students enrolled. The numbering of BIOL 550 to be offered
at the 400 level is intended to provide students with a more appropriate information content and depth of knowledge of systematics. BIOL 428 is aimed at sophomores or juniors with a more general biology background.

h. Change to Existing BS Biology – Organismal Major
Proposal
We want to replace BIOL 550 Introduction to Systematics with BIOL 428 Introduction to Systematics.

Requirements
Current requirements for a B.S. in Biology with concentration in Organismal Biology are as follows (as they appear in the 2011-2012 Undergraduate Catalog):

Organismal Biology Requirements (21 hours)
BIOL 408 Physiology of Organisms (3)
BIOL 409 Physiology of Organisms Laboratory (2)
BIOL 413 History and Diversity of Organisms (3)
BIOL 599 Senior Seminar: Organismal Biology (must be taken in senior year) (1)
1 of the following 3 courses:
BIOL 416 Cell Structure and Function (3)
BIOL 414 Principles of Ecology (3)
BIOL 550 Introduction to Systematics (3)
The new requirements would read:

Organismal Biology Requirements (21 hours)
BIOL 408 Physiology of Organisms (3)
BIOL 409 Physiology of Organisms Laboratory (2)
BIOL 413 History and Diversity of Organisms (3)
BIOL 599 Senior Seminar: Organismal Biology (must be taken in senior year) (1)
1 of the following 3 courses:
BIOL 416 Cell Structure and Function (3)
BIOL 414 Principles of Ecology (3)
BIOL 428 Introduction to Systematics (3)

Justification
BIOL 428 Introduction to Systematics replaces BIOL 550 Introduction to Systematics. BIOL 550 has historically been difficult to teach because the breadth of prior knowledge and expectations for the class of the students enrolled. The numbering of BIOL 550 to be offered at the 400 level is intended to provide students with a more appropriate information content and depth of knowledge of systematics. BIOL 428 is aimed at sophomores or juniors with a more general biology background.

i. Change to Existing BS Biology – Teaching Biology Major
Proposal
We want to replace BIOL 550 Introduction to Systematics with BIOL 428 Introduction to Systematics.

Requirements
Current requirements for a B.S. in Biology with concentration in Teaching Biology are as follows (as they appear in the 2011-2012 Undergraduate Catalog):

General Biology Requirements (30-31 hours)
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology (4)
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology (4)
BIOL 350 Principles of Genetics (3)
BIOL 412 Evolutionary Biology (3)
BIOL 414 Principles of Ecology (3)
BIOL 416 Cell Structure and Function (3)
BIOL 598 Research Methods (1-3)
BIOL 599 Senior Seminar: Biology (1)
1 of the following 2 courses:
BIOL 413 History and Diversity of Organisms (3)
BIOL 550 Introduction to Systematics (3)
The new requirements would read:

General Biology Requirements (30-31 hours)
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology (4)
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology (4)
BIOL 350 Principles of Genetics (3)
BIOL 412 Evolutionary Biology (3)
BIOL 414 Principles of Ecology (3)
BIOL 416 Cell Structure and Function (3)
BIOL 598 Research Methods (1-3)
BIOL 599 Senior Seminar: Biology (1)
1 of the following 2 courses:
BIOL 413 History and Diversity of Organisms (3)
BIOL 428 Introduction to Systematics (3)

Justification
BIOL 428 Introduction to Systematics replaces BIOL 550 Introduction to Systematics. BIOL 550 has historically been difficult to teach because the breadth of prior knowledge and expectations for the class of the students enrolled. The numbering of BIOL 550 to be offered at the 400 level is intended to provide students with a more appropriate information content and depth of knowledge of systematics. BIOL 428 is aimed at sophomores or juniors with a more general biology background.

j. Change to Existing BS Geography – Geographical Information and Analysis Major Proposal
CHANGES:
General Requirements:
200-level English course or above (ENGL 362 recommended) changed to ENGL 203, 209, 210, 211 or 362.
COMS 130 changed to PHIL 148
History or philosophy of science:
Add HIST 137, 309
Add PHIL 310, 610
Remove PHIL 370, 622
Remove two principal courses in the humanities
Remove two principal courses in the social sciences
Add one course in the social sciences
Preparation for the Major:
Remove MATH 115, 116
Add PHSX 211 and 212
Remove PHSX 114 and 115 and BIOL 150 and 152
Overview Courses:
Add GEOG 105 or 140 and 141
Remove GEOG 148
Remove GEOG 100
Remove Additional Geography
Add two GEOG 300+ courses, one in Physical and one in Human and/or Regional Geography
Electives 17-26 hours changed to 14-23 hours.
Add GEOG 500 or GEOG 714 as a required capstone course
Total hours 106-132 changed to 102-124.
Requirements
BACHELOR OF SCIENCE IN GEOGRAPHY: GEOGRAPHICAL INFORMATION AND ANALYSIS OPTION

General Requirements

<table>
<thead>
<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
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<tbody>
<tr>
<td>ENGL 101 (or exemption)</td>
<td>0-3</td>
</tr>
<tr>
<td>ENGL 102 (or 105 or exemption)</td>
<td>0-3</td>
</tr>
<tr>
<td><strong>200-level English course (ENGL 362 recommended)</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>ENGL 203, 205, 209, 210, 211, or 362</td>
<td>3</td>
</tr>
<tr>
<td>COMS 130 (COMS 230, PHIL 148, PHIL 310, exemption)</td>
<td>0-3</td>
</tr>
<tr>
<td>PHIL 148</td>
<td>3</td>
</tr>
<tr>
<td>History or philosophy of science</td>
<td>3</td>
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<tr>
<td>Choose one of the following or approval of Undergraduate committee</td>
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<tr>
<td>PHIL 310, 370, 375, 380, 610, 620, 622</td>
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</tr>
<tr>
<td>GEOG 357</td>
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<tr>
<td><strong>Two principal courses in the Humanities</strong></td>
<td><strong>6</strong></td>
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<tr>
<td><strong>Two principal courses in the Social Sciences</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td><strong>One course in Social Sciences</strong></td>
<td><strong>3</strong></td>
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</table>

Preparation for the major

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<thead>
<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
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<tbody>
<tr>
<td>MATH 121 and MATH 122 (or MATH 115, MATH 116 and MATH 122)</td>
<td><strong>10-11</strong></td>
</tr>
<tr>
<td>EECS 138 or GEOG 514 or equivalent</td>
<td><strong>3-4</strong></td>
</tr>
<tr>
<td>PHYS 114 and 115 or BIOL 150 and 152</td>
<td><strong>8</strong></td>
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<tr>
<td>PHSX 211 and 212</td>
<td><strong>8</strong></td>
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Geography Requirements

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<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
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<tbody>
<tr>
<td>GEOG 104 (107) or GEOG 148 (149)</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>GEOG 104 (107) and 105 or GEOG 140 and 141</td>
<td><strong>5</strong></td>
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<tr>
<td>GEOG 111 or GEOG 210</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>GEOG 100 (101) or GEOG 102 (103)</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>GEOG 102 (103)</td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

**Additional Geography**

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<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
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<tbody>
<tr>
<td>Two GEOG 300+ courses in Physical Studies, Human Studies</td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>and/or Regional Studies</td>
<td></td>
</tr>
<tr>
<td>Two GEOG 300+ courses, one in Physical and one in Human and/or Regional Geography</td>
<td><strong>6</strong></td>
</tr>
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</table>

Core Geographic Information Science (Six courses, at least one from each category)

<table>
<thead>
<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
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</thead>
<tbody>
<tr>
<td>Cartography and Visualization: GEOG 311, GEOG 513, GEOG 517</td>
<td></td>
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<tr>
<td>Geographical Information Systems: GEOG 358, GEOG 558, GEOG 758</td>
<td></td>
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<tr>
<td>Remote Sensing: GEOG 526, GEOG 726</td>
<td></td>
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<tr>
<td>Statistics: GEOG 316, GEOG 516, GEOG 716</td>
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**Geographic Information Science Electives**

<table>
<thead>
<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two other courses from GIS Studies (GEOG 511 and 514 recommended)</td>
<td><strong>6-8</strong></td>
</tr>
</tbody>
</table>

**Allied Field:** (3 courses and 9 credit hours minimum in one field (or a minor):

<table>
<thead>
<tr>
<th>Credit Hrs</th>
<th>Requirement Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example areas: Area Studies, Atmospheric Science, Biology, Computer Science, Design, Environmental Studies, Engineering, Geology, Psychology, Urban Planning</td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Capstone course** GEOG 500 Senior Capstone in Geography or GEOG 714 Field Experience
Electives (17-26 credits, any university courses)  17-26
Electives (14-23 credits, any university credits)        14-23

Justification
Last year the Department underwent an external review. Although the external reviewers were impressed with our overall undergraduate program, they felt that we should consider some modifications in our program. Specifically, they stated the following:

Despite these strengths, some consideration could productively be given to course sequences in the undergraduate program to ensure that students are building the systematic skills and training they need. We particularly recommend that the Department consider a more hierarchical approach to the undergraduate curriculum, with middle-level classes in place that bridge the lower and upper divisions and that serve as prerequisites for the latter.

In a related vein, we recommend that the Department give careful consideration to the skills that it requires of its students. There is a trade-off that must be considered between what is required of students and the number of majors the Department is likely to attract, and the Department may want to maintain different requirements for different tracks within the major. But we believe that every geography major should have some exposure to cartography/GIS, mathematics and/or statistics and the Department should at least consider whether students completing the Bachelor of General Studies in Geography should be required to take a language, math, or statistics course depending on their areas of emphasis within the discipline.

As a result of these comments, we have revised our B.A. and B.S. degrees in geography. In addition to modifying the content of the degrees based on the reviewers’ comments, we have added a capstone course.

k. Change to Existing Mathematics Major
Proposal
Proposal: Bachelor of Science degree. Proposed Change: Add to List C for Applied Concentration: Curriculum & Instruction* C&T 360, 366, 460 *Note: A Student using at least two Curriculum & Instruction courses for the applied concentration must complete PHSX 211 (as one of the natural science courses) and must complete at least one of the geometry courses 559, 660, or 661.

Requirements
BS MATHEMATICS
Requirements for the B.S. Degree
18 hours
First- and Second-Year Preparation
MATH 121 Calculus I (5) or
MATH 141 Calculus I, Honors (5)
MATH 122 Calculus II (5) or
MATH 142 Calculus II, Honors (5)
MATH 223 Vector Calculus (3) or
MATH 290 Elementary Linear Algebra (2) or
MATH 291 Elementary Linear Algebra, Honors (2)
MATH 320 Elementary Differential Equations (3) or
MATH 220 Applied Differential Equations (3)
Core Requirements 12-13 hours

Linear Algebra: MATH 590 Linear Algebra (3) or MATH 790 Linear Algebra II (3)
Analysis: MATH 500 Intermediate Analysis (3) or MATH 765 Mathematical Analysis I (3)
Algebra: MATH 558 Introductory Modern Algebra (3) or MATH 791 Modern Algebra (3)
Statistics: MATH 526 Applied Mathematical Statistics I (3) or MATH 628 Mathematical Theory of Statistics (3) or MATH 728 Statistical Theory (3) or DSCI 301 Statistics (4)

Mathematics Concentration/Sequence Requirements 6-12 hours
One 2-course sequence from List A and a second 2-course sequence from either List A or List B

Electives 0-6 hours
Up to 2 additional 3-credit-hour courses to complete a total of 24 credit hours of mathematics courses numbered MATH 450 and above. Students who satisfy the core statistics requirement with DSCI 301 must choose an additional 3-credit-hour elective.

Applied Concentration 8 hours
3 courses, totaling at least 8 credit hours, that make significant use of mathematics. At least 2 courses must be in the same area. Courses from List C have been approved for this requirement. Other upper-division courses making significant use of mathematics can be used for the applied concentration with the approval of a mathematics department adviser.

Note: Many of these courses have prerequisites that do not count toward the mathematics major.

Minimum Major Requirements 42 hours

Applied Concentration 8 hours

General Education Requirements 49-49 hours

English, Argument and Reason, and Western Civilization (18) (These are the same as the requirements for the B.A. degree.)
Computer Science: EECS 138 (3) or EECS 168 (4)
Natural Science: 1 course with laboratory (4-5 hours) and one additional course (3-5 hours) in biological science (NB), earth science (NE), or physical science (NP) (7-10)
Humanities and Foreign Language: 4 courses in humanities and foreign language, at least two (6 hours) of which must be in humanities (designated H). Students are encouraged to complete at least two courses in a foreign language (12)
Social Sciences: 2 courses designated S (6)

List A Sequences
MATH 627 Probability (3) and MATH 628 Mathematical Theory of Statistics (3)
MATH 660 Geometry I (3) and MATH 661 Geometry II (3)
MATH 765 Mathematical Analysis I (3) and MATH 766 Mathematical Analysis II (3)
MATH 781 Numerical Analysis I (3) and MATH 782 Numerical Analysis II (3)
MATH 790 Linear Algebra II (3) and MATH 791 Modern Algebra (3)

List B Sequences
MATH 500 Intermediate Analysis (3) and MATH 646 Complex Variable and Applications (3)
MATH 526 Applied Mathematical Statistics I (3) and MATH 605 Applied Regression Analysis (3)
MATH 526 Applied Mathematical Statistics I (3) and MATH 611 Time Series Analysis (3)
MATH 530 Mathematical Models I (3) and MATH 531 Mathematical Models II (3)
MATH 540 Elementary Number Theory (3) and MATH 558 Introductory Modern Algebra (3)
MATH 558 Introductory Modern Algebra (3) and MATH 601 Algebraic Coding Theory (3)
MATH 581 Numerical Methods (3) and MATH 591 Applied Numerical Linear Algebra (3)
MATH 590 Linear Algebra (3) and MATH 790 Linear Algebra II (3)
MATH 646 Complex Variable and Applications (3) and MATH 647 Applied Partial Differential Equations (3)
MATH 647 Applied Partial Differential Equations (3) and MATH 648 Calculus of Variations and Integral Equations (3)
MATH 724 Combinatorial Mathematics (3) and MATH 725 Graph Theory (3)

List C Applied Concentration Courses
Statistics: MATH 605, MATH 611, MATH 624, ECON 817, ECON 818
Management Science and Operations Management: SCM 310, DSCI 410
Finance: FIN 310, FIN 410, FIN 415, FIN 420, FIN 425, MATH 630
Economics: ECON 526, ECON 590, ECON 700, ECON 701, ECON 715, ECON 716
Biology: BIOL 350, BIOL 412, BINF 701, BINF 702, BIOL 743, BIOL 747
Physics and Astronomy: PHSX 313, PHSX 521, PHSX 531, ASTR 591, ASTR 592, PHSX 621, PHSX 631, PHSX 655, PHSX 671, ASTR 691, PHSX 741
Chemistry: CHEM 516, CHEM 646, CHEM 648
Bioinformatics: BINF 701, BINF 702
Chemical and Petroleum Engineering: C&PE 211, C&PE 511, C&PE 521, C&PE 523
Civil Engineering: CE 201, CE 300, CE 301, CE 310, CE 311, CE 461, CE 704
Curriculum & Instruction: C&T 360, 366, 460
*Note: A Student using at least two Curriculum & Instruction courses for the applied concentration must complete PHSX 211 (as one of the natural science courses) and must complete at least one of the geometry courses 559, 660, or 661.

Electrical Engineering and Computer Science: EECS 211, EECS 220, EECS 360, EECS 420, EECS 444, EECS 510, EECS 560, EECS 562, EECS 638, EECS 649, EECS 660, EECS 662, EECS 672, EECS 718, EECS 730, EECS 744
Mechanical Engineering: ME 201, ME 311, ME 312, ME 321, ME 508, ME 520, ME 612, ME 682, ME 740

Note: Some courses satisfying the sequence requirements are taught infrequently. More advanced courses can be substituted for lower level courses in many cases. Consult the mathematics department for expected course offerings and substitutions.
Courses used to satisfy the core requirements can also be used to complete List A and List B sequences. However, courses used for the Applied Concentration requirement cannot also be counted toward the 24 credit hours of advanced mathematics courses for the B.S. degree.

**Justification**

The study of the pedagogy of mathematics falls within the scope of applications of mathematics. Students preparing to be secondary mathematics teachers will be well-served by the BS math program, which provides more depth in mathematics than the BA math program. The particular design of this proposed applied concentration ensures that students will study physics and geometry, which are important for high school mathematics instruction.

Further background:
Recently, preparation of students to become high school math (and science) teachers moved from the School of Education to the UKanTeach program. The UKanTeach program is a collaborative program of CLAS and the School of Education, but the students get their degree in CLAS. UKanTeach math students can choose between the BA math or the BS math degree. The BA in math requires fewer math courses and more general education requirements than the BS in math. Currently it is easier to fit all the BA requirements into a four year curriculum than to fit the BS requirements. This is largely due to the BS requirement for an Applied Concentration, which includes three courses that use a significant amount of mathematics. These courses can be chosen from a variety of fields, but often used are physics, economics, finance, computer science and statistics. To complete the applied concentration, the students often must take one or two prerequisite courses that do not otherwise fulfill any degree requirements. UKanTeach students must take 30 credit hours of pedagogy, research methods, and mathematics courses (related to teaching), which do not count towards the requirements of the BA or BS in math. Allowing them to count three of their Curriculum & Teaching requirements for the applied concentration for the math BS will make the BS option more attractive to them, and thus may improve the mathematics background of some future teachers.

The proposal couples the use of these courses for the applied concentration with a requirement that the student takes PHSX 211 and one of the geometry courses (MATH 559, 660, 661). These are similar to requirements of the old teacher preparation program in the School of Education. They do not add any credits to the program; these courses will count towards general ed and math requirements. They are in the proposed requirements because they are important for high school math teachers. There is precedent for requiring specific courses to accompany an applied concentration--students using two or more statistics courses for the applied concentration are required to take MATH 627 and 628 (which themselves count as a math sequence and not as applied concentration courses).

1. **Change to Existing BA Slavic Languages and Literatures Major Proposal**

Proposal for a new course, SLAV 626 The Cultural Impact of the Ottoman Empire on the South Slavs, to count as an elective for the South Slavic emphasis in the Slavic Department.

**Requirements**

South Slavic Studies Emphasis
First- and Second-Year Preparation
Mandatory Premajor Courses

**BCRS 104** Elementary Bosnian/Croatian/Serbian I (fall) and **BCRS 108** Elementary Bosnian/Croatian/Serbian II (spring)
(Students entering KU with previous knowledge of Bosnian/Croatian/Serbian should contact the Slavic department for placement.)

**BCRS 204** Intermediate Bosnian/Croatian/Serbian I (fall)

**Major**

**Core Requirements**  
12 hours

- **BCRS 208** Intermediate Bosnian/Croatian/Serbian II (spring) (3)
- **BCRS 504** Advanced Bosnian/Croatian/Serbian I (fall) (3)
- **BCRS 508** Advanced Bosnian/Croatian/Serbian II (spring) (3)
- **SLAV 508** South Slavic Literature and Civilization (3)

**Electives**  
15 hours

Choose 15 hours of electives from the following list:

- **BCRS 380** Intensive Croatian (summer in Croatia) (6)
- **BCRS 675** Readings in Bosnian/Croatian/Serbian (3)
- **ECON 560** Economic Systems (3)
- **HIST 377** Everyday Communism in Eastern Europe (3)
- **HIST 557** Nationalism and Communism in East Central Europe from 1772 to the Present (3)
- **PHIL 580** Marxism (or other relevant course in philosophy) (3)
- **SLAV 144/SLAV 145** Survey of Russian Literature in Translation (3)
- **SLAV 148/SLAV 149** Introduction to Slavic Folklore (3)
- **SLAV 316/SLAV 317** The Peoples and Cultures of Southeastern Europe Through Film (3)
- **SLAV 340/SLAV 341** Introduction to the Languages and Peoples of Russia and East-Central Europe (3)
- **SLAV 558** Readings in Slovene (1-6)
- **SLAV 626** The Cultural Impact of the Ottoman Empire on the South Slavs (3)
- **SLAV 630** Slavic Folklore (3)
- **SLAV 635** Language, Culture, and Ethnicity in Prehistoric Eastern Europe (3)
- **SLAV 679** Topics in: Slavic Culture (2)

**Justification**

Fills a gap in the content of the curriculum but also adds an option for this emphasis, which needs more courses.

**OLD BUSINESS**

a. Change to Existing Geography Major – BA and BGS

**Current Geography BA Course Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 104</td>
<td>Principles of Physical Geography (or GEOG 107)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>Introductory Laboratory in Physical Geography</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Principles of Human Geography (or GEOG 103)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 111</td>
<td>(4) or 311 (4) or 316 (4) or 358 (4)</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 100</td>
<td>World Regional Geography (or GEOG 101) or other regional course</td>
<td>3</td>
</tr>
</tbody>
</table>

15 additional credit hours selected from at least 3 of the 4 major categories (see course offerings):

- Physical Studies
- Geographic Information Science
Proposed Geography BA Course Requirements:
GEOG 102 Principles of Human Geography (or GEOG 103) 3
GEOG 104 Principles of Physical Geography (or GEOG 107) 3
GEOG 105 Introductory Laboratory in Physical Geography 2
GEOG 210 Computers, Maps and Geographical Analysis 3
GEOG 316 Methods of Analyzing Geographical Data or GEOG 358 Principles of Geographic Information Systems 4
GEOG 500 Senior Capstone in Geography or GEOG 714 Field Experience 3

15 credit hours of electives at 200-500 level from 3 of 4 categories (Physical, GIS, Human, and Regional), one of which must be a regional course.

Total = 18 required credits, 15 elective credits = 33

Changes:
GEOG 100 is no longer required.
GEOG 210 is a new requirement.
GEOG 111 or GEOG 311 are no longer options.
GEOG 500 or GEOG 714 is a new requirement.
One course in the elective hours must be a regional course.
Required credits are now 18 plus 15 elective credits for a total of 33.

JUSTIFICATION:
Last year the Department underwent an external review. Although the external reviewers were impressed with our overall undergraduate program, they felt that we should consider some modifications in our program. Specifically, they stated the following:

Despite these strengths, some consideration could productively be given to course sequences in the undergraduate program to ensure that students are building the systematic skills and training they need. We particularly recommend that the Department consider a more hierarchical approach to the undergraduate curriculum, with middle-level classes in place that bridge the lower and upper divisions and that serve as prerequisites for the latter.

In a related vein, we recommend that the Department give careful consideration to the skills that it requires of its students. There is a trade-off that must be considered between what is required of students and the number of majors the Department is likely to attract, and the Department may want to maintain different requirements for different tracks within the major. But we believe that every geography major should have some exposure to cartography/GIS, mathematics and/or statistics and the Department should at least consider whether students completing the Bachelor of General Studies in Geography should be required to take a language, math, or statistics course depending on their areas of emphasis within the discipline.

As a result of these comments, we have revised our B.A. and B.S. degrees in geography. In addition to modifying the content of the degrees based on the reviewers’ comments, we have added a capstone course.

b. Change to Existing Geography Major – BS – Physical option

General Requirements  credit hrs
English - ENGL 101 (or exemption)  0-3
ENGL 102 (or 105 or exemption)  0-3
200-level English course (ENGL 362 recommended) ............................................. 3
ENGL 203, 209, 210, 211, or 362............................................................................. 3

COMS 130 (COMS 230, PHIL 148, PHIL 310, exemption) .................................... 0-3
PHIL 148.................................................................................................................. 3
History or philosophy of science .............................................................................. 3
Choose one of the following or approval of Undergraduate committee
PHIL 310, 370, 375, 380, 610, 620, 622
GEOG 357
Two principal courses in the Humanities ................................................................. 3
Two principal courses in the Social Sciences ......................................................... 3
One course in the Social Sciences ............................................................................ 3

Preparation for the major
MATH 121 and MATH 122 (recommended) or MATH 115 and MATH 116 .............. 6-10
MATH 121 and MATH 122 (MATH 220 and 320 are also recommended) ......... 10
PHSX 211 and PHSX 212 (recommended) or PHSX 114 and PHSX 115 .......... 6-8
PHSX 211 and 212 .................................................................................................... 8
BIOL 150 and BIOL 152 and BIOL 414................................................................. 7-8
CHEM 184 (or 185) and CHEM 188 (or 189) ..................................................... 10
EECS 128 or equivalent............................................................................................ 3
EECS 138.................................................................................................................. 3

Geography Requirements
Overview Courses
GEOG 104 Principles of Physical Geography or GEOG 107 (Honors) ............... 3
GEOG 105 Introductory Laboratory in Physical Geography........................... 2
GEOG 104 Principles of Physical Geography (or GEOG 107) and 105 Introductory Laboratory in Physical Geography
GEOG 100 or GEOG 102 (or honors equivalent) ................................................ 3
One course in Human or Regional Geography .................................................... 3

Foundation Courses:
a. Physical: Choose three of the following ....................................................... 9-10
GEOG 304 Environmental Conservation.............................................................
GEOG 321 Climate and Climate Change..............................................................
GEOG 331 Regional Geomorphology of the United States
GEOG 335 Introduction to Soil Geography (or GEOG 535 Soil Geography)
GEOG 338 River Systems

Core Systems Courses.............................................................................................. 16-
17
Biogeography: BIOL 414 Principles of Ecology.................................................. 3
Climate: GEOG 321 Climate and Climate Change.............................................. 3
Geomorphology: GEOG 331 Regional Geomorphology of the United States .... 3
Hydrology and Glaciology: GEOG 332 Glaciers and Landscape or CE 455 Hydrology 3
Soil Geography: GEOG 335 Introduction to Soil Geography or GEOG 535 Soil Geography 4-5

b. Geographic Information Science: The following are required ....................... 12
GEOG 316 Methods of Analyzing Geographical Data.........................................
GEOG 358 Principles of Geographic Information Systems.............................
GEOG 526 Remote Sensing of the Environment

Techniques Courses................................................................................................. 11-
12
GEOG 316 Methods of Analyzing Geographical Data......................................... 4
GEOG 358 Principles of Geographic Information Systems 4
One 500-level or above course from GIS studies (GEOG 558 Intermediate Geographical Information Systems or GEOG 526 Remote Sensing of Environment I recommended) 3-4

c. Field Experience: Choose one of the following .......................................................... 3
   EVRN 460 Field Ecology
   GEOG 433 Biogeography Field and Laboratory Techniques
   GEOG 714 Field Experience

Elective Courses:
   a. 6 additional hours from the Physical geography course list (300 or above) .......... 6
   b. 6 additional hours of Geography (any group, 300 or above) ............................. 6
   c. 6 additional hours in Allied Field (ATMO, BIOL, EVRN or GEOL) ..................... 6

Elective Courses (2 or more of the following courses): 6-8
Biogeography: GEOG 537
Climate: GEOG 521
Geomorphology: GEOG 532, GEOG 541
Soil Geography: GEOG 538, GEOG 735
Other advanced courses in Physical Geography

Capstone Course
   GEOG 500 Senior Capstone in Geography or GEOG 714 Field Experience 3

Total hours
   95-105

BACHELOR OF SCIENCE IN GEOGRAPHY – PHYSICAL GEOGRAPHY OPTION

CHANGES:

General Requirements:

200-level English course or above (ENGL 362 recommended) changed to ENGL 203, 209, 210, 211 or 362.
COMS 130,(COMS 230, PHIL 148, PHIL 310, exemption,) changed to PHIL 148
History or philosophy of science:
   Add HIST 137, 309
   Add PHIL 310, 610
   Remove PHIL 370, 375, 622 and GEOG 357
Remove two principal courses in the humanities
Remove two principal courses in the social sciences
Add one course in the social sciences

Preparation for the Major:

Remove MATH 115 and 116
Add (MATH 220 and 320 are also recommended)
Remove PHSX 114 and 115
Remove BIOL 414 and add BIOL 150
Add CHEM 185 and 189
Remove EECS 128
Add EECS 138

Geography Requirements
Overview Courses
Remove GEOG 100 or 102 (or 103)
Add One course in Human or Regional Geography

Replace **Foundation Courses: a. Physical** with **Core Systems Courses**
Replace **b. Geographic Information Science:** with **Techniques Courses**
Remove **c. Field Experience:**
Replace old Elective Courses (18 hours) with new Elective Courses (6-8 hours)
GEOG 500 is a new requirement

Total hours changed from 100-117 to 95-105.

**JUSTIFICATION:**
Last year the Department underwent an external review. Although the external reviewers were impressed with our overall undergraduate program, they felt that we should consider some modifications in our program. Specifically, they stated the following:

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