I. Welcome

II. Ann Cudd – VP and Dean of Undergraduate Studies
   a. CUSA/UCCC Committee Roles
   b. Transfer Credit

III. Approval of CUSA Minutes from October 8, 2013

IV. Dean’s Office Update

V. SAS Office Update

VI. Subcommittee Chair Reports

   a. Curricular Changes/Degree Requirements
      1. Curricular Changes for Approval:
         NEW COURSES: AAAS 353, ANTH 102, ANTH 401, COMS 132, FMS 303, FMS 345, FMS 377, FMS 401, FMS 407, FMS 585, GERM 330, HA 353, HA 508
         CHANGES: ANTH 358-459, ANTH 450-555, BIOL 101, BIOL 150, BIOL 151, BIOL 152, BIOL 153, BIOL 412, ENGL 105, ENGL 305, FMS 302, FMS 576-374, GEOL 311, GEOL 312, GERM 104, GERM 108, GERM 201, GERM 202, GERM 203, GERM 320, GERM 400, IPS 305
         DELETIONS: GERM 340
         NEW TOPICS: LA&S 492

      2. Degree Requirements for Approval:
         a. Changes to Existing Major - Anthropology
         b. Changes to Existing Major – BFA Dance
         c. Changes to Existing Major – Public Administration
         d. Changes to Existing Major – BS Environmental Studies
         e. Changes to Existing Major – BA Film & Media Studies
         f. Changes to Existing Major – BGS Film & Media Studies
         g. Changes to Existing Minor – Dance
         h. Changes to Existing Major – BA Geology
         i. Changes to Existing Majors and re-structuring of tracks – Biology
         j. Changes to Existing Minor – African & African-American Studies

      3. Other Changes:
         a. Changes to Existing AP credit equivalency – Math (Attachment 1)
         b. Changes to Existing ACT score placement range – English (Attachment 2)

      4. KU Core Proposals (Attachment 3)
         b. Advising and Awards – BGS
            i. BGS proposal – the BGS proposal will be placed as an item for discussion in New Business on the 11/5 agenda (Attachment 4)

   c. Academic Standards Report – Undergraduate Certificates

VII. Adjournment
COMMITTEE ON UNDERGRADUATE STUDIES AND ADVISING  
Minutes of the Meeting for October 8, 2013

The committee met on Tuesday, October 8, 2013, at 11:15 a.m. in Room 210 Strong Hall. The following were present: Antonik, Baskett, Bayer, Bradley, Brumfield, Childers, Conrad, Fillian, Garibotto, Gegenheimer, Goldstein, Hamilton, Hilding, Kelly, Neidert, Rockey, Stock, Timm, Zogry  
Guest: J. Johnson, K. Moore

Welcome: Professor Neidert called the meeting to order.

Approval of CUSA Minutes: A motion was made to approve the September 24, 2013 meeting minutes of the Committee on Undergraduate Studies & Advising. The motion was seconded and passed unanimously.

Dean’s Office Update: Anticipate releasing the proposal for teaching post docs shortly. The College is currently working on funding and it is the hope that it can be expanded to include Humanities for the first time this year.

SAS Office Update: Ann Cudd, Vice Provost & Dean of Undergraduate Studies, has been invited to attend the next CUSA meeting to discuss transfer credit and specifically how it relates to the KUCore.

Subcommittee Assignments:

A. Curricular Changes/Degree Requirements  KU Core Proposals
   1. CURRICULAR CHANGES/DEGREE REQUIREMENTS
      A motion to approve the Curricular Changes was seconded, and CUSA voted unanimously to approve with corrections and changes shown below:

         Curricular Changes for Approval

         NEW COURSES APPROVED:  CLSX 178, CLSX 355, COMS 238, ENGL 306, ENGL 310, ENGL 328, ENGL 330, ENGL 341, ENGL 351,  
                                      ENGL 532, ENGL 533, ENGL 534, ENGL 568, ENGL 581, ENGL 660, GEOG 590, HA 532, *HNRS 195,  
                                      HRNS 496, JWSH 107, JWSH 315, JWSH 336

         CHANGES APPROVED:  BIOL 688, ENGL 300, ENGL 301, ENGL 302, ENGL 308, ENGL 309, ENGL 312, ENGL 314, ENGL 315,  
                                           ENGL 316, ENGL 317, ENGL 318, ENGL 320, ENGL 322,  
                                           ENGL 323, ENGL 324, ENGL 325, ENGL 327,  
                                           ENGL 331, ENGL 332, ENGL 334, ENGL 336, ENGL 337,  
                                           ENGL 338, ENGL 340, ENGL 351, ENGL 352,  
                                           ENGL 353, ENGL 354, ENGL 355, ENGL 359, ENGL 360,  
                                           ENGL 361, ENGL 362, ENGL 380, ENGL 385,  
                                           ENGL 387, ENGL 390, ENGL 466, ENGL 479, HIST 325, HRNS 190, HWC 205, REES 510, REL 107, SPAN 302

         DELETIONS APPROVED:  BIOL 450

      * HNRS 195 – delete required of all freshman honors students

   2. DEGREE REQUIREMENTS FOR APPROVAL
      A motion to approve the Degree Requirements was seconded, and CUSA voted unanimously to approve with changes as shown below:

         APPROVED:

         a) *New Minor – American Studies
         b) Changes to Existing Major – Physics
         c) Changes to Existing Major – English
         d) Changes to sub-plan name- English – from Language, Rhetoric and Writing to Rhetoric, Language and Writing
e) Discontinuation of English Major Admission Requirements
f) **Changes to Existing Minor – English

*New Minor – American Studies – change language to read minor not minority
*Change wording from regular track to general track for consistency with item c above
(Changes to Existing Major – English)

3. **KU CORE PROPOSALS FOR APPROVAL**
   A motion was made to approve the KU Core proposals. The motion was seconded and passed unanimously.

   B. Advising & Awards – BGS
   The Advising & Awards Subcommittee is making final edits on their proposal to the BGS with major.

   C. Academic Standards Report – Undergraduate Certificates
   The Academic Standards Subcommittee is continuing to review certificate programs.

Adjournment 11:32 a.m.
a. Curricular Changes/Degree Requirements

1. Curricular Changes for Approval/Motion to File

AFRICAN & AFRICAN-AMERICAN STUDIES

CHANGE: NEW CROSS-LISTED COURSE
AAAS 353 MODERN AND CONTEMPORARY AFRICAN ART 3 H
In this course, we examine the development of artistic modernisms in Africa in historical context. We also study the content, production, patronage, and display of modern and contemporary African art. In doing so, we consider African artists' engagement with modernity, globalization, and contemporary issues, as well as interrogate influential myths and assumptions regarding African artists and the work they produce. Course themes include the workshop as a critical site, independence movements and the creation of national art forms, art as global commodity, and art in resistance, remembrance, and revolution. (Same as HA 353)

ANTHROPOLOGY

CHANGE: NEW COURSE
ANTH 102 SUCCEEDING IN ANTHROPOLOGY 1 S
This course is designed to enhance students' chances for success in anthropology major and life after college. Students will learn how to maximize their possibilities for gaining academic assistance, grants, and career building, as well as design strategies for winning jobs, entry into graduate programs, and paid internships at home and abroad.

CHANGE: NUMBER
ANTH 358 ANTHROPOLOGY OF SEX, HONORS 3 H
(OLD) Honors section of ANTH 359. This course is an introduction to the evolutionary study of human sexual behavior. Using an explicitly Darwinian framework, it examines the biological basis for human mate selection, male and female mating strategies, child-birth and child-care practices, parental care, marriage and family structure. The power of Darwinian theory to predict human sexual behavior is tested in anthropological field studies, designed and carried out by students in the class. Class time is allocated for discussion of students research as it progresses through each stage, and results are presented in the last weeks of the semester. Prerequisite: Introductory class in biology or biological anthropology. Open only to students in the University Honors Program, or by consent of instructor.

ANTH 459 ANTHROPOLOGY OF SEX, HONORS 3 H
(NEW) Honors section of ANTH 359. This course is an introduction to the evolutionary study of human sexual behavior. Using an explicitly Darwinian framework, it examines the biological basis for human mate selection, male and female mating strategies, child-birth and child-care practices, parental care, marriage and family structure. The power of Darwinian theory to predict human sexual behavior is tested in anthropological field studies, designed and carried out by students in the class. Class time is allocated for discussion of students research as it progresses through each stage, and results are presented in the last weeks of the semester. Prerequisite: Introductory class in biology or biological anthropology. Open only to students in the University Honors Program, or by consent of instructor.

CHANGE: NEW COURSE
ANTH 401 INTEGRATING ANTHROPOLOGY: 3 S
Capstone course that integrates the primary fields of anthropology. Students apply concepts and approaches from each field to a particular topic in preparation for and presentation of a cross-disciplinary and integrative final project. Prerequisites: completion of all required introductory anthropology courses and two anthropology courses 300 and above, excluding introductory courses taught at the 300-level, or permission of instructor.

CHANGE: COURSE DESCRIPTION
NUMBER TITLE
ANTH 450 DISEASE AND ADAPTATION 3 N
The role of disease in human evolution, variation, and adaptation is examined. Topics include paleopathology, epidemics, and genetic/cultural adaptation to certain diseases. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 555  EVOLUTION OF HUMAN DISEASES  3  N

This course traces the evolution of human diseases over the past 3 million years. Topics include paleopathology, epidemics/pandemics, genetic adaptations to diseases, and emerging/reemerging diseases. In addition, interrelationships between humans and diseases, coupled with interactions with other animals, vectors, and natural and cultural environments are discussed. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

BIOLOGY

CHANGE: COURSE DESCRIPTION

BIOL 101  PRINCIPLES OF BIOLOGY, HONORS  3  N

(OLD) Intended for non-science majors with superior academic records. The basic concepts of biology at the cellular, organismal, and population levels of organization and their applications to humans and modern society. Concurrent enrollment in BIOL 103 is recommended. BIOL 101 and BIOL 103 satisfy the College natural science with laboratory requirement. Prerequisite: Membership in the College Honors Program or consent of instructor.

BIOL 101  PRINCIPLES OF BIOLOGY, HONORS  3  N

(NEW) Intended for non-science majors with superior academic records. The basic concepts of biology at the cellular, organismal, and population levels of organization and their applications to humans and modern society. Concurrent enrollment in BIOL 102 or BIOL 103 is recommended. BIOL 101 and either BIOL 102 or BIOL 103 satisfy the College natural science with laboratory requirement. Prerequisite: Membership in the College Honors Program or consent of instructor.

CHANGE: COURSE DESCRIPTION

BIOL 150  PRINCIPLES OF MOLECULAR AND CELLULAR BIOLOGY  4  N

(OLD) An integrated lecture and laboratory course for biology majors and students planning to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and two hours of laboratory per week. An honors section (BIOL 151) is offered for students with superior academic records. Prerequisite: Concurrent or prior enrollment in CHEM 130, CHEM 190, CHEM 150, or CHEM 170, or consent of instructor. LEC

BIOL 150  PRINCIPLES OF MOLECULAR AND CELLULAR BIOLOGY  4  N

(NEW) An integrated lecture and laboratory course for biology majors and students planning to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and three hours of laboratory per week. An honors section (BIOL 151) is offered for students with superior academic records. Prerequisite: Concurrent or prior enrollment in CHEM 130, CHEM 190, CHEM 150, or CHEM 170, or consent of instructor. LEC

CHANGE: COURSE DESCRIPTION

BIOL 151  PRINCIPLES OF MOLECULAR AND CELLULAR BIOLOGY, HONORS  4  N

(OLD) An integrated lecture and laboratory course for students with superior academic records who are biology majors or who plan to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and two hours of laboratory per week. Prerequisite: Membership in the University Honors Program and concurrent or prior enrollment in CHEM 130, CHEM 190, CHEM 150, or CHEM 170, or consent of instructor. LEC

BIOL 151  PRINCIPLES OF MOLECULAR AND CELLULAR BIOLOGY, HONORS  4  N

(NEW) An integrated lecture and laboratory course for students with superior academic records who are biology majors or who plan to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and two hours of laboratory per week. Prerequisite: Membership in the University Honors Program and concurrent or prior enrollment in CHEM 130, CHEM 190, CHEM 150, or CHEM 170, or consent of instructor. LEC
biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and three hours of laboratory per week. Prerequisite: Membership in the University Honors Program and concurrent or prior enrollment in CHEM 130, CHEM 190, CHEM 150, or CHEM 170, or consent of instructor. LEC

CHANGE: COURSE DESCRIPTION
BIOL 152 PRINCIPLES OF ORGANISMAL BIOLOGY  4  N
(OLD) An integrated lecture and laboratory course for biology majors and students who plan to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and two hours of laboratory per week. An honors section (BIOL 153) is offered for students with superior academic records. Prerequisite: BIOL 150 or BIOL 151. LEC

BIOL 152 PRINCIPLES OF ORGANISMAL BIOLOGY  4  N
(NEW) An integrated lecture and laboratory course for biology majors and students who plan to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and three hours of laboratory per week. An honors section (BIOL 153) is offered for students with superior academic records. Prerequisite: BIOL 150 or BIOL 151. LEC

CHANGE: COURSE DESCRIPTION
BIOL 153 PRINCIPLES OF ORGANISMAL BIOLOGY, HONORS  4  N
(OLD) An integrated lecture and laboratory course for students with superior academic records who are biology majors or planning to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and two hours of laboratory per week. Prerequisite: BIOL 150 or BIOL 151 and membership in the University Honors Program or consent of instructor. LEC

BIOL 153 PRINCIPLES OF ORGANISMAL BIOLOGY, HONORS  4  N
(NEW) An integrated lecture and laboratory course for students with superior academic records who are biology majors or planning to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and three hours of laboratory per week. Prerequisite: BIOL 150 or BIOL 151 and membership in the University Honors Program or consent of instructor. LEC

CHANGE: CREDIT
BIOL 412 EVOLUTIONARY BIOLOGY  3  N
(OLD) Introduction to the patterns and processes of organic evolution. Considered are the history of evolutionary thought, molecular evolution, genetics and microevolution, selection and adaptation, and speciation and macroevolution. Emphasis will be placed on how scientists study and document change over time in natural populations, methods for testing hypotheses about events in evolutionary history, and how discovering evolutionary mechanisms at one level of organization can help to explicate general processes in the natural world. Prerequisite: BIOL 152 and BIOL 350, or consent of the instructor. LEC

BIOL 412 EVOLUTIONARY BIOLOGY  4  N
(NEW) Introduction to the patterns and processes of organic evolution. Considered are the history of evolutionary thought, molecular evolution, genetics and microevolution, selection and adaptation, and speciation and macroevolution. Emphasis will be placed on how scientists study and document change over time in natural populations, methods for testing hypotheses about events in evolutionary history, and how discovering evolutionary mechanisms at one level of organization can help to explicate general processes in the natural world. Prerequisite: BIOL 152 and BIOL 350, or consent of the instructor. LEC

View current sections
COMMUNICATIONS

CHANGE: NEW COURSE
COMS 132 ORAL COMMUNICATION FOR THE PROFESSIONAL SCHOOLS 3 H
Grounded in communication theory, the purpose of this new course is to teach public speaking skills within a professional context. Focus is on the preparation, presentation, and critique of various forms of oral communication, including but not limited to informative, persuasive, and group presentations. Course is restricted to students in the professional schools.

ENGLISH

CHANGE: PREREQUISITE
ENGL 105 FRESHMAN HONORS ENGLISH 3 H
(OLD) Study of significant works of world literature. The primary aims are to develop reading and writing skills and to introduce the students to works of literature drawn from a variety of genres and historical periods. Prerequisite: An ACT score of 32-36, or an SAT score of 650 or higher, or an AP exam score of 3 on either the Literature and Composition exam or the Language and Composition exam, or membership in the University Honors Program.

ENGL 105 FRESHMAN HONORS ENGLISH 3 H
(NEW) Study of significant works of world literature. The primary aims are to develop reading and writing skills and to introduce the students to works of literature drawn from a variety of genres and historical periods. Prerequisite: An ACT score of 31-36, or an SAT score of 650 or higher, or an AP exam score of 3 on either the Literature and Composition exam or the Language and Composition exam, or membership in the University Honors Program.

CHANGE: PREREQUISITE COURSE IS CURRENTLY CROSSLISTED
ENGL 305 WORLD INDIGENOUS LITERATURES 3 H, W, NW
(OLD) A survey of contemporary world indigenous literatures that includes those from North America, Australia, New Zealand, the South Pacific, the Arctic, and Latin America. Texts are in English (original or translation). Genres studied include the novel, poetry, and drama, supplemented by works from the oral tradition, the visual arts, and film. Prerequisite: Prior completion of the Freshman-Sophomore English requirement or its equivalent. (Same as ISP 305.) LEC

ENGL 305 WORLD INDIGENOUS LITERATURES 3 H, W, NW
(NEW) A survey of contemporary world indigenous literatures that includes those from North America, Australia, New Zealand, the South Pacific, the Arctic, and Latin America. Texts are in English (original or translation). Genres studied include the novel, poetry, and drama, supplemented by works from the oral tradition, the visual arts, and film. Prerequisite: Prior completion of the KU Core Written Communication requirement. Recommended: Prior completion of one 200-level English course. (Same as ISP 305.) LEC

FILM & MEDIA STUDIES

CHANGE: COURSE DESCRIPTION TITLE
FMS 302 UNDERGRADUATE SEMINAR IN: ____________ 1-3 H
(OLD) Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. LEC Prerequisite:

FMS 302 UNDERGRADUATE STUDIES SEMINAR IN: ____________ 1-3 H
(NEW) Course organized any given semester to examine a particular studies topic or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. LEC

CHANGE: NEW COURSE
FMS 303 UNDERGRADUATE PRODUCTION SEMINAR IN: ________ 1-3 H
Course organized any given semester to study a particular production topic or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. LEC
CHANGE: NEW COURSE
FMS 345 NEW MEDIA AND SOCIETY  3 H
Students will be introduced to major themes and debates in digital media studies and apply critical approaches for understanding new media practices, technologies, and theories. In addition to readings and lectures, students will engage in a variety of digital activities and participate in production-oriented projects. By the end of this course students will gain a foundational understanding of historical and emerging relationships between new media (internet, cell phones, digital games, etc.) and society, acquire key digital skills, and experience a variety of new media texts and services. This course is offered at the 300 and 700 levels, with additional assignments at the 700 level.

CHANGE: NEW COURSE
FMS 377 POST-PRODUCTION  3 H
Students become familiar with techniques and processes in film and video post-production including, but not limited to, editing, sound, post-production management, marketing, and distribution. This course is offered at the 300 and 700 levels, with additional assignments at the 700 level. Prerequisite: FMS 275 and consent of instructor.

CHANGE: NEW COURSE
FMS 401 UNDERGRADUATE PROFESSIONAL DEVELOPMENT SEMINAR  1 H
Provides an overview of opportunities for professional development in Film and Media Studies, and helps students plan goals for their education through an understanding of professional practices. The course also covers practical exercises in professional development, including writing resumes, finding internships and entry-level work, and other aspects of establishing a career in Film and Media Studies. Prerequisite: FMS 275 or equivalent. Open to FMS Majors only. Graded satisfactory/unsatisfactory. LEC, WWW

CHANGE: NEW COURSE
FMS 407 UNDERGRADUATE FILM/MEDIA SERVICE LEARNING INTERNSHIP  1-6 H
Supervised study with an approved government agency, established non-profit organization, school, or community-based partner to produce a professional-level film and/or media project in the public interest. Community work should meet the needs of the community-based organization and the education goals set by the student, instructor, and community based partner; be in direct service, indirect service, policy analysis, research, and/or advocacy work; engage the student with individuals or communities of need and with issues related to social justice, community development, and/or access to resources. May be repeated for credit. No more than six hours may be applied to the B.A. or B.G.S. degrees. Graded satisfactory/unsatisfactory. Prerequisite: Consent of instructor and at least 22 credit hours in the department. FLD

CHANGE: COURSE DESCRIPTION PREREQUISITE NUMBER
FMS 576 ANIMATION  3 H
(OLD) A survey that combines animation history, theory, and production by examining works from various historical periods and exploring various styles and techniques with 16mm animation equipment. Lecture-laboratory. Prerequisite: FMS 276 and consent of instructor. LEC
FMS 374 ANIMATION  3 H
(NEW) A survey that combines animation history, theory, and production by examining animated works of all kinds and exploring various styles utilizing both hands-on techniques and digital animation programs. Lecture-laboratory.

CHANGE: NEW COURSE
FMS 585 CAPSTONE IN FILM AND MEDIA STUDIES  3 H
This course integrates the knowledge and skills acquired across the curriculum of Film & Media Studies including primarily academic studies, but also production and other related disciplines to enable the student to demonstrate achievement through the production of a major creative research project. Prerequisites: Must be admitted to the Film and Media Studies B.A. or B.G.S. degree. Must have completed one FMS production course. Must have Departmental permission to enroll.
GEOLOGY

CHANGE: PREREQUISITE
GEOL 311   MINERALOGY AND STRUCTURE OF THE EARTH  3  N
(OLD) Basic identification and properties of rocks and minerals in the context of whole-earth structure and evolution. Includes basic chemical equilibria for rock and mineral systems and their bearing on processes involved with formation and evolution of Earth's crust, mantle, and core. Two lectures and one lab per week. Prerequisite: GEOL 101, CHEM 125 or CHEM 130, and eligibility for MATH 121 or MATH 115. LEC
GEOL 311   MINERALOGY AND STRUCTURE OF THE EARTH  3  N
(NEW) Basic identification and properties of rocks and minerals in the context of whole-earth structure and evolution. Includes basic chemical equilibria for rock and mineral systems and their bearing on processes involved with formation and evolution of Earth's crust, mantle, and core. Two lectures and one lab per week. Prerequisite: GEOL 101, CHEM 130, and eligibility for MATH 121 or MATH 115. LEC

CHANGE: PREREQUISITE
GEOL 312   MINERAL STRUCTURES AND EQUILIBRIA LABORATORY  1  U
(OLD) A laboratory to accompany GEOL 311. Presents more rigorous analysis of the structures, compositions, and chemical equilibria governing the formation and stability of common rock-forming mineral systems. Prerequisite: GEOL 311 (may be taken concurrently), CHEM 125 or CHEM 130, and eligibility for MATH 121 or MATH 115 LAB
GEOL 312   MINERAL STRUCTURES AND EQUILIBRIA LABORATORY  1  U
(NEW) A laboratory to accompany GEOL 311. Presents more rigorous analysis of the structures, compositions, and chemical equilibria governing the formation and stability of common rock-forming mineral systems. Prerequisite: GEOL 311 (may be taken concurrently), CHEM 130, and eligibility for MATH 121 or MATH 115 LAB

GERMANIC LANGUAGES & LITERATURES

CHANGE: COURSE DESCRIPTION
GERM 104   ELEMENTARY GERMAN I  5  U
(OLD) Introductory German; no previous German required. Development of students' use of the German language, including the ability to comprehend, interpret, and produce short spoken, written, and multimedia texts on everyday topics in cultural contexts. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 108. LEC
GERM 104   ELEMENTARY GERMAN I  5  U
(NEW) Introductory German; no previous German required. Development of students' balanced knowledge of the German language and culture, including the ability to understand and produce short spoken, written, and multimedia texts on everyday topics and to interpret, compare, and contrast German and American cultural phenomena. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 108. LEC

CHANGE: COURSE DESCRIPTION
GERM 108   ELEMENTARY GERMAN II  5  U
(OLD) Continuation of GERM 104. Further development of students' use of German language through comprehension and production of short spoken, written, and multimedia texts on everyday topics in cultural contexts. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 201. Prerequisite: GERM 104 or placement by examination. LEC
GERM 108   ELEMENTARY GERMAN II  5  U
(NEW) Continuation of GERM 104. Further development of students' balanced knowledge of the German language and culture, including the ability to understand and produce short spoken, written, and
multimedia texts on everyday topics and to interpret, compare, and contrast German and American cultural phenomena. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 201. Prerequisite: GERM 104 or placement by examination. LEC

CHANGE: COURSE DESCRIPTION
GERM 201 INTERMEDIATE GERMAN I 3 U
(OLD) Continuation of GERM 108. Further development of students' use of the German language through comprehension and production of short literary and non-literary spoken, written, and multimedia texts in cultural contexts. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 202. Prerequisite: GERM 108 or placement by examination. LEC

GERM 201 INTERMEDIATE GERMAN I 3 U
(NEW) Continuation of GERM 108. Further development of students' balanced knowledge of the German language and culture, including the ability to understand and produce short spoken, written, and multimedia texts in different genres and to interpret, compare, and contrast German and American cultural phenomena. Emphasis on interaction. Not open to native speakers of German. Students who complete this course successfully should take GERM 202. Prerequisite: GERM 108 or placement by examination. LEC

CHANGE: COURSE DESCRIPTION
GERM 202 INTERMEDIATE GERMAN II 3 U
(OLD) Continuation of GERM 201. Further development of students' use of the German language through the comprehension, interpretation, and production of short literary and non-literary spoken, written, and multimedia texts in cultural contexts. Emphasis on interaction. Not open to native speakers of German. Students who successfully complete this course should take GERM 301. Prerequisite: GERM 201 or placement by examination. LEC

GERM 202 INTERMEDIATE GERMAN II 3 U
(NEW) Continuation of GERM 201. Further development of students' balanced knowledge of the German language and culture, including the ability to understand and produce short spoken, written, and multimedia texts in different genres and to interpret, compare, and contrast German and American cultural phenomena. Emphasis on interaction. Not open to native speakers of German. Students who successfully complete this course should take GERM 301. Prerequisite: GERM 201 or placement by examination. LEC

CHANGE: COURSE DESCRIPTION
GERM 203 INTRODUCTION TO BUSINESS GERMAN: DEUTSCH IM BERUFSALLTAG 3 H
(OLD) Continuation of GERM 201; completes language proficiency sequence. Structured grammar review, composition, conversation, and reading with focus on the basics of German business communication. Recommended for students planning to take GERM 352 and GERM 462. Not open to native speakers of German. Prerequisite: GERM 201 or placement by examination. LEC

GERM 203 INTRODUCTION TO BUSINESS GERMAN: DEUTSCH IM BERUFSALLTAG 3 H
(NEW) Continuation of GERM 201; completes language proficiency sequence. Further development of students' balanced knowledge of the German language and culture, including the ability to understand and produce short spoken, written, and multimedia texts on the topics related to professional communication and to interpret, compare, and contrast German and American business cultural phenomena. Emphasis on interaction. Recommended for students planning to take GERM 352 and GERM 462. Not open to native speakers of German. Prerequisite: GERM 201 or placement by examination. LEC

CHANGE: COURSE DESCRIPTION
GERM 320 BORDER CROSSINGS IN GERMAN CULTURE 3 H
(OLD) Taught in English. Introduction to German culture and its transformations in transnational contexts. Examination of the historical, cultural, and literary impact of German emigration and immigration. Topics include emigration to America after the failed Revolution of 1848, exile communities during the Nazi era, and multinational migrations in contemporary Germany. Does not count toward German major or minor. LEC

GERM 320 BORDER CROSSINGS IN GERMAN CULTURE 3 H
(NEW) Taught in English. Exploration of writers, filmmakers, and artists who have emigrated from, or migrated to German-speaking Europe. Emphasis on both their transnational impact and their representations of border crossings. Topics may include exile communities before, during, and after World War II and multiculturalism in contemporary Germany, Austria, and Switzerland. Does not count toward German major or minor.

CHANGE: NEW COURSE
GERM 330 TOPICS IN: ___________________ 3 H
Taught in English. Interdisciplinary study of selected aspects of the society or culture of German-speaking Europe or of the European experience. Does not count toward the German major or minor. LEC

CHANGE: DELETE COURSE
GERM 340 DEUTSCHE GRAMMATIK 3 H
For students enrolled in the KU Summer Language Institute in Germany. Exercises in selected topics of German grammar. Prerequisite: GERM 216 or equivalent. LEC

CHANGE: DELETE COURSE
GERM 340 DEUTSCHE GRAMMATIK 3 H
For students enrolled in the KU Summer Language Institute in Germany. Exercises in selected topics of German grammar. Prerequisite: GERM 216 or equivalent. LEC

CHANGE: PREREQUISITE
GERM 400 INTRODUCTION TO GERMAN LITERARY MASTERPIECES 3 H
(OLD) For students enrolled in the KU Summer Language Institute in Germany. Selected works of major German Language writers of the 19th and 20th centuries. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, or GERM 348. LEC

GERM 400 INTRODUCTION TO GERMAN LITERARY MASTERPIECES 3 H
(NEW) For students enrolled in the KU Summer Language Institute in Germany. Selected works of major German Language writers of the 19th and 20th centuries. Not open to native speakers of German. Prerequisite: GERM 302. LEC

HISTORY OF ART

CHANGE: NEW CROSS-LISTED COURSE
HA 353 MODERN AND CONTEMPORARY AFRICAN ART 3.0 H
In this course, we examine the development of artistic modernisms in Africa in historical context. We also study the content, production, patronage, and display of modern and contemporary African art. In doing so, we consider African artists' engagement with modernity, globalization, and contemporary issues, as well as interrogate influential myths and assumptions regarding African artists and the work they produce. Course themes include the workshop as a critical site, independence movements and the creation of national art forms, art as global commodity, and art in resistance, remembrance, and revolution. (Same as AAAS 353)

CHANGE: NEW COURSE
HA 508 THE ITALIAN RENAISSANCE HOME 3 H
This course explores the history of domestic art and architecture in Italy, with a special emphasis on Florence, from c. 1350 to 1600. Palace architecture, religious works made for private devotions, the increasing use of mythological themes in painting and sculpture, birth trays, painted cassoni, majolica, and various types of portraiture are examined within the contexts of contemporary theories of virtue and magnificence, the rituals of marriage and childbirth, the public and private promotion of political and personal agendas, and changing tastes. In addition to acquiring an in-depth knowledge of the artistic and architectural milieus of Italian Renaissance homes and expanding their cultural understanding, students enrolled in this course engage in a series of assignments designed to build and hone their reading, critical thinking, visual analysis, research, and writing skills. The same assignments allow students to integrate their knowledge of and to think creatively about the period, objects, and buildings in question. A high expectation of class participation and the opportunity to present their research provide students with the opportunity to build and strengthen their oral communications skills. Prerequisite: HA 100, HA 150, HA 151, HA 330, or the equivalent, or consent of instructor.
INDIGENOUS STUDIES PROGRAM

CHANGE: PREREQUISITE COURSE IS CURRENTLY CROSSLISTED

ISP 305 WORLD INDIGENOUS LITERATURES 3 H

(OLD) A survey of contemporary world indigenous literatures that includes those from North America, Australia, New Zealand, the South Pacific, the Arctic, and Latin America. Texts are in English (original or translation). Genres studied include the novel, poetry, and drama, supplemented by works from the oral tradition, the visual arts, and film. (Same as ENGL 305.) Prerequisite: Prior completion of the Freshman-Sophomore English requirement or its equivalent. Prerequisite:

ISP 305 WORLD INDIGENOUS LITERATURES 3 H

(NEW) A survey of contemporary world indigenous literatures that includes those from North America, Australia, New Zealand, the South Pacific, the Arctic, and Latin America. Texts are in English (original or translation). Genres studied include the novel, poetry, and drama, supplemented by works from the oral tradition, the visual arts, and film. (Same as ENGL 305.) Prerequisite: Prior completion of the KU Core Written Communication requirement. Recommended: Prior completion of one 200-level English course.

LIBERAL ARTS & SCIENCES

CHANGE: NEW TOPIC

LA&S 492 APPLYING TO MEDICAL SCHOOLS 1

This course teaches applicants for medical school how to construct a comprehensive application for admission, how to prepare for the Medical College Admission Test (MCAT), use the Medical School Admissions Requirements (MSAR) database to choose which medical schools to apply to, complete the American Medical College Application Service (AMCAS) application, write an engaging and compelling personal comments essay, ask for evaluation letters, and prepare for medical school interviews. Graded satisfactory/unsatisfactory.

2. Degree Requirements for Approval

a. Changes to Existing Major – Anthropology

Requirements for the B.A. or B.G.S. Major – Anthropology

A minimum of 27-34 hours is required. The major offers a systematic introduction to each of the subdisciplines along with advanced training in specific areas. These normally are taken before moving on to upper-level courses. Students should select courses listed in part 2 in consultation with faculty advisors.

Anthropology Core Knowledge and Skills

Majors must complete a course in each of the following areas:

- **Succeeding in Anthropology. Satisfied by ANTH 102.**
- **Fundamentals of Physical Anthropology. Satisfied by ANTH 104, ANTH 105, or ANTH 304.**
- **Introduction to Linguistics or Language in Culture & Society. Satisfied by ANTH 106, ANTH 107, ANTH 320, or ANTH 321.**
- **Introduction to Cultural Anthropology or the Varieties of Human Experience. Satisfied by ANTH 108, ANTH 109, ANTH 308, ANTH 160, ANTH 162, or ANTH 360.**
- **Introduction to Archaeology. Satisfied by ANTH 110, ANTH 111, or ANTH 310.**

Majors should complete 2 of the above courses at the 300 level.

Anthropology Subdiscipline Required Electives

Majors must complete a course in the following areas. Majors should consult with their academic advisor to select courses that best meet their interests.
• **Archaeology.** Satisfied by completing at least 1 course in archaeology from ANTH 313-319, 406-419, 500, 504-526, 604-619. [NO CHANGES, SO LIST NOT INCLUDED IN THIS PROPOSAL]

• **Biological Anthropology.** Satisfied by completing at least 1 course in biological anthropology: ANTH 340-359, 440-459, 503, 540-559, 640-659.

  - ANTH 340 Human Variation and Evolution (3)
  - ANTH 341 Human Evolution (3)
  - ANTH 350 Human Adaptation (3)
  - ANTH 352 Controversies of the Living and the Dead (3)
  - ANTH 358 ANTH 459 Anthropology of Sex, Honors (3)
  - ANTH 359 Anthropology of Sex (3)
  - ANTH 440 Introduction to Primates (3)
  - ANTH 442 Anthropological Genetics (3)
  - ANTH 445 Topics in Biological Anthropology: _____ (3)
  - ANTH 447 Human Behavioral Genetics (3)
  - ANTH 449 Laboratory/Field Work in Human biology (1-3)
  - ANTH 450 ANTH 555 Disease and Adaptation Evolution of Human Diseases (3)
  - ANTH 503 Topics in Biological Anthropology: _____ (3)
  - ANTH 540 Demographic Anthropology (3)
  - ANTH 542 Biology of Human Nutrition (4)
  - ANTH 543 Anthropology of Food and Nutrition (3)
  - ANTH 544 Physical Anthropology of American Indians (3)
  - ANTH 545 Contemporary Health Issues in Africa (3)
  - ANTH 549 Human Paleontology: Fossil Apes to Australopithecus (3)
  - ANTH 550 Human Paleontology: Homo Erectus to Homo Sapiens (3)
  - ANTH 648 Human Osteology (4)
  - ANTH 650 Human Reproduction: Biology and Behavior (3)
  - ANTH 652 Population Dynamics (3)
  - ANTH 750 Disease and Adaptation (3)
  - ANTH 754 Biological Bases of Human Behavior (3)
  - ANTH 756 Genetics of Isolates (3)
  - ANTH 762 Human Growth and Development (3)
  - ANTH 764 Selected Topics in Human Paleontology (3)
  - ANTH 766 Topics in Biological Anthropology: __________ (3)
  - ANTH 769 Seminar in Primate Studies (3)

• **Sociocultural Anthropology.** Satisfied by completing at least 1 course in sociocultural or linguistic anthropology that does not have a specific geographical focus from: ANTH 301, ANTH 322-339, ANTH 361-395, ANTH 420-439, ANTH 460-495, ANTH 501-502, ANTH 527-539, ANTH 560-595, ANTH 620-639, ANTH 660-695. [NO CHANGES, SO LIST NOT INCLUDED IN THIS PROPOSAL]

• **Geographic Area.** Satisfied by completing at least 1 course in any sub-discipline of anthropology that focuses on a specific geographic area. [NO CHANGES, SO LIST NOT INCLUDED IN THIS PROPOSAL]

• **Junior/Senior Elective.** Satisfied by completing at least 1 junior/senior (300+) elective course in any anthropology sub-discipline that is not an introductory course listed above in Anthropology Core Knowledge and Skills, except for ANTH 320 or ANTH 321.

**CAPSTONE EXPERIENCE**

**ANTH 401 – Integrating Anthropology – 3 hrs.**

Students considering graduate school should take at least 2 courses beyond major requirements. These should be selected in consultation with a faculty advisor.
Anthropology Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade point average minimum standards:

**Major Hours**
Satisfied by $\geq 31-34$ hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 12 hours of KU resident credit in the major.

**Major Junior/Senior (300+) Hours**
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior (300+) Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**JUSTIFICATION:**

1. Anth 450 is being replaced by Anth 555. Anth 450 fulfilled a Biological Anthropology elective requirement for both the major and the minor, and Anth 555 will now fulfill those requirements. Anth 750, the graduate component of anth 450, is deleted. ANTH 358 is also being changed to ANTH 459 to clear up confusion about the honors/non-honors numbering for the course.

2. Proposed Additional Requirements
ANTH 102 “Succeeding in Anthropology”, 1 credit, and ANTH 401, Integrating Anthropology, 3 credits.

Many majors in anthropology know little about the best strategies for succeeding in the major and in their careers. The 1-credit “Succeeding in Anthropology” course will provide them with information about how excel in the major, how to find university, department, and external resources, and how to prepare for the job market, graduate school, and domestic and international paid internship and volunteer opportunities.

With this new requirement (ANTH 102), along with the addition of the ANTH 401 capstone currently in the process of CUSA review, the minimum credit requirement for the major will be increase from 30 [presuming the acceptance of the ANTH 401 capstone] to 31-34, and the minimum number of courses will increase from 10 [presuming the acceptance of the ANTH 401 capstone] to 11.

Note – because the minor simply lists a course number range, and the new numbers for ANTH 450 and ANTH 358 are still within the published range, no specific changes need to be made to the language of the minor requirements even though a change to the minor is mentioned in the proposal.

b. Changes to Existing Major – BFA Dance

Bachelor of Fine Arts in Dance Degree Requirements

The B.F.A. requires an audition for entry; however, students enrolled in the B.A. program may audition at the end of each academic year. In order to be considered for a scholarship or entry directly into the B.F.A. program, incoming students MUST audition in person or online via Acceptd.

The curriculum leading to the B.F.A. focuses on technique, choreography, and performance. It prepares students for professional careers or further academic study in dance. Entrance into the B.F.A. program is provisional during the first year. After evaluation of the year’s work and approval by the faculty, a student is fully accepted into the B.F.A. program.
B.F.A. majors receive integrated training in ballet, modern, and jazz dance technique. They also take courses in choreography, dance theory, history, dance science, and pedagogy. Other B.F.A. courses include flamenco, performing arts administration, classical East Indian dance, conditioning and injury prevention for dancers, and musical theatre dance. Students must complete a senior project in performance and/or choreography. B.F.A. majors have a variety of performance opportunities as members of the University Dance Company. A total of 120 credit hours is required.

**Written Communication – Core Skill and Critical Inquiry**

- Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature & Composition score of 3 or above, or equivalent transfer course. Requirement must be completed during initial term of admission at KU.
- Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Sophomore Reading and Writing II. Satisfied by ENGL 203, or ENGL 205 (Honors), ENGL 209, or ENGL 210 or ENGL 211, or ENGL 362, or AP English Literature & Composition score of 5 or above, or an equivalent
- Theatre Design or Production. Satisfied by completion of THR 215, THR 216, THR 220, or THR 224.

**Humanities – Understanding the Human Condition.** Satisfied by completing 2 courses (6 hours) (requirement code H). Approved courses may be searched for availability through the Kyou portal.

**Social and Behavioral Sciences – Understanding Society and Behavior.** Satisfied by completing 2 courses (6 hours) (requirement code S). Approved courses may be searched for availability through the Kyou portal.

**General Electives.** Satisfied by completing 12 hours of approved courses.

**General Education Requirements.**

In addition to degree and major requirements, all students must complete the KU Core*

*students may fulfill both KU Core and Major requirements by taking the following:
GOAL 4 Learning Outcome 2 – DANC 230, 330, 440, 460 or 490
GOAL 6 – DANC 550

**Dance Technique.** Majors must complete 33 hours of courses in the following areas. Majors must have at least 6 hours of technique at the 300 level in ballet and modern and 3 hours at the 300 level in jazz.

- Ballet III. Satisfied by 4 hours of DANC 201.
- Modern III. Satisfied by 4 hours of DANC 203.
- Jazz III. Satisfied by 2 hours of DANC 205.
- Ballet IV. Satisfied by 6 hours of DANC 301.
- Modern IV. Satisfied by 6 hours of DANC 303.
- Jazz IV. Satisfied by 3 hours of DANC 305.

The following may be substituted for DANC 201, DANC 203, DANC 301, or DANC 303 if 4 semesters of level IV ballet or modern are completed.

- Pas de Deux. Satisfied by DANC 308.

**Choreography.** Majors must complete courses as specified in each of the following areas:
• Dance Improvisation. Satisfied by 2 hours of DANC 150.
• Choreography: Structured Solos. Satisfied by 2 hours of DANC 250.
• Choreography: Group Forms. Satisfied by 3 hours of DANC 350.
• Environmental Choreography. Satisfied by 3 hours of DANC 450.

**Dance Performance.** Majors must complete courses as specified in each of the following areas.

• Musical Theatre Dance. Satisfied by 2 hours of DANC 260.
• University Dance Company. Satisfied by 4 hours of DANC 320.
• Introduction to Classical East Indian Dance. Satisfied by 3 hours of DANC 440.
• Introduction to Flamenco Dance Technique. Satisfied by 3 hours of DANC 490.
• Senior Project. Satisfied by 3 hours of DANC 550.

**Dance Theory, History, Pedagogy, and Science Dance Studies.** Majors must complete courses as specified in each of the following areas:

• Rhythms and Structures of Music. Satisfied by 1 hour of DANC 210.
• Introduction to African Dance Theatre. Satisfied by 3 hrs of DANC 230.
• Approaches to World Dance. Satisfied by 3 hours of DANC 330.
• Ideokinesis. Satisfied by 3 hours of DANC 375.
• Video for Dance. Satisfied by 3 hrs of DANC 420.
• Dance for Children. Satisfied by 3 hours of DANC 430.
• Dance History: Research and Reconstruction. Satisfied by 3 hours of DANC 460.
• Performing Arts Administration for Dancers. Satisfied by 3 hours of DANC 475.
• Practicum: _____. Satisfied by 1 hour of DANC 530.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 82 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 47 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**JUSTIFICATION:**
To align the BFA in Dance requirements with the KU Core, and add new courses to the curriculum options.

**c. Changes to Existing Major – Public Administration**

**PROPOSAL**

*Reduce the number of junior/senior hours required for the public administration major from 27 to 24. This change would not affect the overall requirement for junior/senior hours for the degree.*
Limit the number of internship hours that can apply to the major. This change would prevent students from taking PUAD 691: Internship for more than 3 hours towards major requirements. It would not affect a student's ability to take PUAD 691 or an internship course in another department and apply it to non-major requirements for their degree.

Requirements for the B.A. or B.G.S. Major

Public Administration Required Courses

Majors must complete a course in each of the following areas:

- Introduction to Public Administration. Satisfied by PUAD 330 or PUAD 331.
- Quantitative Methods for Public Administration. Satisfied by PUAD 332, PSYC 210 or MATH 365 and their equivalents may be substituted for this course requirement but students would need to complete another junior/senior PUAD elective for the PUAD major.
- Hard Choices in Public Administration. Satisfied by PUAD 333.

Public Administration Required Electives

Majors must complete 6 courses (18 hours) from the following:

- PUAD 431 Bureaucracy, Public Administration, and the Private Sector (3)
- PUAD 432 Conducting the People's Business Ethically (3)
- PUAD 433 Metropolitics and Macroproblems: The American City in Local and Global Context (3)
- PUAD 435 Generating, Allocating, and Managing Public Resources (3)
- PUAD 436 Managing People in Public Organizations (3)
- PUAD 601 Crime and Punishment (3)
- PUAD 602 Diversity in Public Administration (3)
- PUAD 603 Foundations of the Nonprofit Organizations (3)
- PUAD 604 Resource Development and Management in Nonprofit Organizations (3)
- PUAD 605 Managing Nonprofit Relationships (3)
- PUAD 606 Nonprofit Accountability: Public Needs and Public Values (3)
- PUAD 639 Concepts of Civil Society (3)
- PUAD 691 Internship in Public Service (1-6)*
- PUAD 692 Research Experience Public Administration (1-6)
- PUAD 693 Directed Readings (1-3)
- PUAD 694 Topics in Public Administration: _____ (3)

*No more than 3 hours of PUAD 691 – Internship in Public Service may be used to satisfy major requirements.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 27 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 24 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all
JUSTIFICATION:
For our students at the Edwards campus who transfer in the 200 level community college course Introduction to Public Administration this change will allow them to complete the major or minor with the same number of hours that students who take this course at KU are required to take.

While internships have great value, that student’s exposure to Public Administration theory and practice would be compromised if students are allowed to count more than three credit hours towards their overall major.

d. Changes to Existing Major – BS Environmental Studies

Proposal: To remove the general education requirements of the B.S. in Environmental Studies and replace them with the KU Core.

Current Requirements with Proposed Changes in Red/Bold

General Education Requirements

In addition to degree and major requirements, all students must complete the KU Core.

Written Communication – Core Skills and Critical Inquiry

Composition. Satisfied by ENGL 101; ACT English score of 27 or above or SAT English score of 600 or above; AP English Literature & Composition score of 3 or above; or equivalent transfer course. Requirement must be completed during initial term of admission at KU.

• Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors); AP English Literature & Composition score of 4 or above; or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
• Sophomore Reading and Writing II. Satisfied by ENGL 203, ENGL 205 (Honors), ENGL 209, ENGL 210, ENGL 211, or ENGL 362; or AP English Literature & Composition score of 5 or above; or an equivalent.

Argument & Reason – Core Skills and Critical Inquiry. Satisfied by COMS 130, COMS 131 (Honors), COMS 230, PHL 148, PHL 149, PHL 310, or 1 year of high school speech or debate with B-level performance or above. Entering freshmen should consider 100-level options.

Western Civilization – Exploration of One’s Own and Diverse Cultures. (Advising Alert: Requires sophomore-level standing. Courses at other universities may have the same title but may not meet this requirement.)

• Western Civilization I – Ancient, Medieval & Early Modern Periods of Western Civilization. Satisfied by HWC 204 or HWC 114 (Honors).
• Western Civilization II – Modern Western Civilization. Satisfied by HWC 205 or HWC 115 (Honors).

Principles of Microeconomics. Satisfied by ECON 142.

Principal Courses. Satisfied by completing 3 courses from the following categories:

• Humanities – Understanding the Human Condition. Satisfied by completing a course with the requirement code HT, HL or HR. Approved courses may be searched for availability through the Kyou portal.
• Social and Behavioral Sciences – Understanding Society and Behavior. Satisfied by a course with the requirement code SC, SI, or SF. Approved courses may be searched for availability through the Kyou portal.
• Second Language Course. Satisfied by a world language proficiency course.

Environmental Studies Prerequisite or Co-requisite Knowledge
Mathematics. Majors must complete the following:

- **Calculus.** Satisfied by MATH 115 and MATH 116 or Math 121.
- **Statistics.** Satisfied by MATH 365, GEOG 316 or BIOL 570.

Supporting Laboratory Science. Majors must complete one of the following:

- **Principles of Physical Geography and Intro Lab to in Physical Geography.** Satisfied by GEOG 104/GEOG 105.
- **Introduction to Geology, Honors and Geological Fundamentals Laboratory.** Satisfied by GEOL 102/GEOL 103.
- **Introduction to Geology and Geological Fundamentals Laboratory.** Satisfied by GEOL 101/GEOL 103.
- **Fundamentals of Organic Chemistry and Organic Chemistry Laboratory.** Satisfied by CHEM 310/CHEM 331.

Biology and Ecology. Majors must complete the following:

- **Principles of Molecular and Cellular Biology.** Satisfied by BIOL 150/BIOL 151.
- **Principles of Organismal Biology.** Satisfied by BIOL 152/BIOL 153.
- **Principles of Ecology.** Satisfied by BIOL 414.

Chemistry. Majors must complete the following:

- **Foundations of Chemistry I.** Satisfied by CHEM 130/CHEM 190.
- **Foundations of Chemistry II.** Satisfied by CHEM 135/CHEM 195.

Environmental Studies Core Requirements

Environmental Studies Introduction to Science and Culture. Majors must complete both of the following:

- **Global Environment I: The Discovery of Environmental Change.** Satisfied by EVRN 140 (EVRN 144).
- **Global Environment II: The Ecology of Civilization.** Satisfied by EVRN 142/EVRN 145.

Environmental Studies Core Knowledge and Skills. Majors must complete a course in each of the following areas:

- **Environmental Policy Analysis.** Satisfied by EVRN 320.
- **Environmental Law.** Satisfied by EVRN 332.
- **Field Ecology.** Satisfied by EVRN 460.
- **Capstone Experience.** Satisfied by EVRN 615.

Environmental Studies Required Electives/Options. Majors must select an option or design their own. Self-designed emphases must be approved in their entirety by an environmental studies advisor and the undergraduate studies director before implementation. Each option requires 4 courses at the 300+ level.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 32 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.
Major Junior/Senior Hours
Satisfied by a minimum of 24 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

JUSTIFICATION:
We are proposing that the B.S. in Environmental Studies adopt the KU Core curriculum. The current general education requirements will be deleted from the B.S. degree. This change will align our degree with the KU Core.

We are requesting that serious consideration be given for allowing this change to take effect Fall 2014 and apply to all students pursuing a B.S. in Environmental Studies. There are redundancies between the KU Core requirements and the general education requirements that make this change relatively straightforward. Incorporating the KU Core into the B.S. in Environmental Studies will also better align the non-science requirements of the B.S. degree with other degrees within the college, allowing students the opportunity to explore other disciplines related to Environmental Studies and/or double major.

THIS PART OF THE PROPOSAL WAS NOT APPROVED BY THE SUBCOMMITTEE BECAUSE CURRENT STUDENTS COULD POTENTIALLY BE NEGATIVELY AFFECTED IF THEIR REQUIREMENTS WERE CHANGED TO THE KU CORE. (see below)
### BS - ENVIRONMENTAL STUDIES

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<th>Learning Outcome</th>
<th>How is it fulfilled?</th>
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<td>LO 2: Oral Communication</td>
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**Possible KU Core Deficiencies** - 2.2 (Must take COMS 130 for A&R); 6 if EVRN 615 approved.

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**Total Hours:** 92
e. Changes to Existing Major – FILM & MEDIA STUDIES BA

PROPOSAL
Align the BA with the KU Core, add a capstone requirement, and include new courses in the curriculum.

CURRENT Requirements for the BA Film & Media Studies Major

Requirements for the B.A. Major

Film and Media Studies Core Knowledge and Skills. Majors must complete the following courses:

- FMS 100 Introduction to the Film Medium
- FMS 200 Film and Media Aesthetics
- FMS 380 American Popular Culture of: _____
- FMS 310 History of the Silent Film
- FMS 311 History of the American Sound Film
- FMS 530 Classical Film/Media Theory
- FMS 531 Contemporary Concepts in Media Studies
- FMS 592 Documentary Film and Video
- FMS 593 Experimental Film and Video

Film and Media Studies Required Electives. Majors must complete a course in each of the following areas:

Production. Satisfied by one of the following:

- FMS 275 Basic Video Production (3) H
- FMS 276 Basic Film Production (3) H
- FMS 576 Animation (3) H

History of the International Sound Film. Satisfied by one of the following:

- FMS 312 History of the International Sound Film to 1950 (3) H
- FMS 313 History of the International Sound Film Post 1950 (3) H

Film and Media Electives. Satisfied by 7 hours elected from courses in the Film & Media Studies department (any course with an FMS prefix).

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 40 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major, of which 8 must be at the junior/senior (300+) level.

Major Junior/Senior Hours
Satisfied by a minimum of 30 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all
junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

### Proposed Requirements for the BA Film & Media Studies Major

**Film and Media Studies Core Knowledge and Skills.** Majors must complete the following courses:

* Admissions Requirements. Must receive 2.5 cumulative GPA

- **FMS 100** Introduction to the Film Medium (3) * H, HL
- **FMS 200** Film and Media Aesthetics (3) * H, HL, 3H
- **FMS 380** American Popular Culture of: _____ (3) * H, HL
- **FMS 345** New Media & Society (new course) (3) H
- **FMS 401** Undergraduate Professional Development Seminar (new online course) (1)
- **FMS 530** Classical Film/Media Theory (3) H

**Film and Media Studies Required Electives.** Majors must complete a course in each of the following areas:

- **Documentary or Experimental Film.** Satisfied by one of the following:
  - **FMS 592** Documentary Film and Video (3) H
  - **FMS 593** Experimental Film and Video (3) H

- **Cultural Studies.** Satisfied by one of the following:
  - **FMS 314** History of African-American Images (3) H, GE 4.1
  - **FMS 315** Survey of Japanese Film (3) NW, H, GE 4.2
  - **FMS 316** Cinemas of the Southern Cone (3) H, GE 4.1
  - **FMS 620** International Women Filmmakers (3) H

- **Production.** Satisfied by one of the following:
  - **FMS 273** Screenwriting (3) H
  - **FMS 275** Basic Video Production (3) H
  - **FMS 374** Animation (new number and course description) (3) H

- **Film History.** Satisfied by two of the following:
  - **FMS 310** History of the Silent Film (3) H
  - **FMS 311** History of the American Sound Film (3) H, HL
  - **FMS 312** History of the International Sound Film to 1950 (3) H
  - **FMS 313** History of the International Sound Film Post 1950 (3) H
  - **FMS 621** American Film Criticism (3) H

**Capstone:**

- **FMS 585** Capstone in Film and Media Studies (new course) (3)

**Film and Media Electives,** Satisfied by 6 hours elected from courses in the Film & Media Studies department (any course with an FMS prefix)

Total credit hours: 40
JUSTIFICATION
The changes to the BA degree will align with the new KU CORE general education requirements through the addition of a capstone course, and the inclusion of new courses created within the department proposed for FA14.

f. Changes to Existing Major – FILM & MEDIA STUDIES BGS

PROPOSAL
Align the BGS with the KU Core, add a capstone requirement, and include new courses in the curriculum.

CURRENT Requirements for the BGS Film & Media Studies Major

Requirements for the B.G.S. Major

Film and Media Studies Core Knowledge and Skills. Majors must complete a course in each of the following areas:

- **FMS 100** Introduction to the Film Medium
- **FMS 200** Film and Media Aesthetics
- **FMS 310** History of the Silent Film
- **FMS 380** American Popular Culture of: _____
- **FMS 530** Classical Film/Media Theory
- **FMS 531** Contemporary Concepts in Media Studies

Film and Media Studies Required Electives. Majors must complete a course in each of the following:

- Documentary or Experimental Film and Video. Satisfied by one of the following:
  - **FMS 592** Documentary Film and Video (3) H.
  - **FMS 593** Experimental Film and Video (3) H

  Screenwriting, Film or Video Production. Satisfied by one of the following:

  - **FMS 273** Basic Screenwriting (3) H
  - **FMS 275** Basic Video Production (3) H
  - **FMS 276** Basic Film Production (3) H

- Film History or Criticism. Satisfied by one of the following:
  - **FMS 311** History of the American Sound Film (3) HL / H
  - **FMS 312** History of the International Sound Film to 1950 (3) H
  - **FMS 313** History of the International Sound Film Post 1950 (3) H
  - **FMS 621** American Film Criticism (3) H

Film and Media Studies Electives. Satisfied by 15 hours elected from courses in the Film & Media Studies department (any course with an FMS prefix).
Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 42 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major, of which 8 must be at the junior/senior (300+) level.

Major Junior/Senior Hours
Satisfied by a minimum of 30 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Proposed Requirements for the BGS Film & Media Studies Major

Film and Media Studies Core Knowledge and Skills. Majors must complete the following courses:

* Admissions Requirements. Must receive 2.5 cumulative GPA

- **FMS 100** Introduction to the Film Medium (3) * H, HL
- **FMS 200** Film and Media Aesthetics (3) * H, HL, 3H
- **FMS 380** American Popular Culture of: _____ (3) * H, HL
- **FMS 275** Basic Video Production (3) H
- **FMS 401** Undergraduate Professional Development Seminar (new online course) (1)
- **FMS 530** Classical Film/Media Theory (3) H

Film and Media Studies Required Electives. Majors must complete a course in each of the following areas:

Documentary or Experimental Film. Satisfied by one of the following:

- **FMS 592** Documentary Film and Video (3) H
- **FMS 593** Experimental Film and Video (3) H

Satisfied by one of the following:

- **FMS 273** Screenwriting (3) H
- **FMS 345** New Media and Society (new course) (3), H
- **FMS 621** American Film Criticism (3) H

Film History. Satisfied by one of the following:

- **FMS 310** History of the Silent Film (3) H
- **FMS 311** History of the American Sound Film (3) H, HL
- **FMS 312** History of the International Sound Film to 1950 (3) H
- **FMS 313** History of the International Sound Film Post 1950 (3) H

Intermediate Production. Satisfied by two of the following:
• FMS 373 Intermediate Screenwriting (3) H
• FMS 374 Animation (new course number and description) (3) H
• FMS 375 Intermediate Video Production (3) H
• FMS 376 Cinematography (3) H
• FMS 377 Post-Production (new course) (3) H
• FMS 477 Sound Design (3) H
• FMS 478 Experimental Production (3) H
• FMS 479 Broadcast Documentary Production (3) H
• FMS 480 Music Video Production (3) H

Capstone:

• FMS 585 Capstone in Film and Media Studies (new course) (3) H

**Film and Media Electives.** Satisfied by 6 hours elected from courses in the Film & Media Studies department (any course with an FMS prefix)  
Total credit hours: 40

JUSTIFICATION
The changes to the BGS degree will align with the new KU CORE general education requirements through the addition of a capstone course, and the inclusion of new courses created within the department proposed for FA14.

**g. Changes to Existing Minor – Dance**

**Minor Requirements**

**Requirements for the Minor in Dance**

**Open to all KU students**

**Dance Minor Course Requirements**

Students selecting this minor must complete the following requirements:

**Dance Technique.** Satisfied by 8 hours from the following:

• [DANC 102](#) Ballet II
• [DANC 104](#) Modern II
• [DANC 106](#) Jazz II
• [DANC 201](#) Ballet III
• [DANC 203](#) Modern III
• [DANC 205](#) Jazz III
• [DANC 260](#) Musical Theatre Dance
• [DANC 301](#) Ballet IV
• [DANC 303](#) Modern IV
• [DANC 305](#) Jazz IV

**Dance Minor Required Electives.** Satisfied by 12 hours from the following:

• [DANC 150](#) Dance Improvisation
• [DANC 210](#) Rhythms and Structures of Music
• [DANC 230](#) Introduction to African Dance Theatre
• [DANC 250](#) Choreography: Structured Solos
• [DANC 330](#) Approaches to World Dance
• [DANC 375](#) Ideokinesis
• [DANC 420](#) Video for Dance
• [DANC 430](#) Dance for Children
• **DANC 440** Introduction to Classical East Indian Dance  
• **DANC 460** Dance History: Research and Reconstruction  
• **DANC 475** Performing Arts Administration for Dancers  
• **DANC 490** Introduction to Flamenco

**Minor Hours & Minor GPA**

While completing all required courses, minors must also meet each of the following hour and GPA minimum standards:

**Minor Hours**  
Satisfied by 20 hours of minor courses.

**Minor Hours in Residence**  
Satisfied by a minimum of 9 junior/senior hours of KU resident credit in the minor.

**Minor Junior/Senior Hours**  
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the minor.

**Minor Graduation GPA**  
Satisfied by a minimum of a 2.0 KU GPA in all departmental courses (300+) in the minor. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the [Semester/Cumulative GPA Calculator](#).

JUSTIFICATION: Add DANC 420 as an option for the required major electives.

**h. Changes to Existing Major – BA Geology**

**PROPOSAL**  
Remove CHEM 125 as an option for the prerequisite/co-requisite knowledge in chemistry.

**EXCERPT FROM CURRENT REQUIREMENTS PER CATALOG:**

Requirements for the B.A. Major

**Geology Major Course Requirements**

**Geology Prerequisite or Co-requisite Knowledge.** Majors must complete courses as specified in each of the following areas. Majors are advised to take honors courses when eligible. These hours do not contribute to the minimum number of hours required for the major.

- Calculus I. Satisfied by [MATH 115](#) or [MATH 121](#) (or equivalent).
- Foundations of Chemistry I. Satisfied by [CHEM 130](#) or [CHEM 125](#).
- Physics. Satisfied by [PHSX 111](#), or [PHSX 114](#) or [PHSX 211](#) & [PHSX 216](#).
- Biology. Satisfied by [BIOL 100](#) and [BIOL 102](#) (or higher level biology course).
- Information Technology. Satisfied by [EECS 128](#) or [EECS 138](#).

JUSTIFICATION  
Dept. of Chemistry is conducting curricular revision of CHEM 125 and the department has determined that CHEM 130 is the preferred course for this requirement in the BA Geology.

**i. Changes to Existing Majors and re-structuring of tracks – Biology**

**PROPOSALS**  
1. – All of the BS degrees (Biochemistry, Biology, Microbiology, Molecular Biosciences) will adopt the KU Core curriculum, and the current general education requirements will be deleted.
2. - Eliminate five B.S. Biology subplans and replace them with two subplans. The B.S. Biology/Teaching Biology subplan will be retained.
3. - Add BIOL 105 to all admission and degree requirements.
4. - Increase credit hours for BIOL 350 and BIOL 360 from 3 to 4 hours.
5. - Increase credit hours for BIOL 412 from 3 to 4 hours.
6. - Make various changes to the BS in Molecular Biosciences in order to strengthen the core curriculum in the B.S. Molecular Biosciences degree while offering greater flexibility in satisfying the elective requirements.
7. - Change course number of ANTH 450 to 555 per department curricular change request.
8. - Request that BS changes adopting the ku core be allowed to take effect for all students beginning fall 2013.

[THE PART OF THE PROPOSAL WAS NOT APPROVED BY THE SUBCOMMITTEE BECAUSE CURRENT STUDENTS COULD POTENTIALLY BE NEGATIVELY AFFECTED IF THEIR REQUIREMENTS WERE CHANGED TO THE KU CORE.]

ADMISSION REQUIREMENTS FOR ALL DEGREES/MAJORS

Current Requirements with Proposed Changes in Red/Bold – Change to all biological sciences majors

Admission to the Major

Course Requirements

Admission course requirements for Biochemistry, Biology, Human Biology, and Molecular Biosciences:

- **Biology Orientation Seminar. Satisfied by BIOL 105.**
- Principles of Molecular and Cellular Biology. Satisfied by BIOL 150 or 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188), CHEM 195 (formerly CHEM 189), or CHEM 175.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.

Admission course requirements for Microbiology:

- **Biology Orientation Seminar. Satisfied by BIOL 105.**
- Principles of Molecular and Cellular Biology. Satisfied by BIOL 150 or 151.
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188), CHEM 195 (formerly CHEM 189), or CHEM 175.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.

**Biology Admission GPA**

Must have a grade-point average of at least 2.2 based on grades in BIOL 150, BIOL 152, CHEM 135 (formerly CHEM 188), and BIOL 350 (or equivalents). KU's course repeat policy applies to grade-point average calculation.

**Microbiology Admission GPA**

Must have a grade-point average of at least 2.2 based on grades in BIOL 150, CHEM 135 (formerly CHEM 188), and BIOL 350 (or equivalents). Microbiology admission requirements differ from those for Biochemistry, Biology, Human Biology, and Molecular Biosciences, because BIOL 152 is not required for the B.A. and B.S. degrees in microbiology. KU's course repeat policy applies to grade-point average calculation.

Change to Existing Majors:

**BA Biochemistry, BA Biology, BA Human Biology (all tracks), BA Microbiology**

The following changes are requested for all of the above BA degree/major requirements:

1. Add BIOL 105 as both a requirement for admission to the major and as a general science requirement for the major.
2. Increase the total credit hours required for the major as a result of the course credit hour change for BIOL 350/360 from 3 hours to 4 hours.
3. Increase the total credit hours required for the major as a result of the course credit hour change for BIOL 412 from 3 hours to 4 hours BA Biology, BS Biology, and BA Human Biology.
4. Change the course numbers for ANTH 450 and 359, and change the course title for ANTH 450 – BA Human Biology ONLY.

Current Requirements with Proposed Changes in Red/Bold

Requirements for the B.A. Major in Biochemistry

Major Course Requirements

General Science Requirements. Satisfied by completing 32-37 33-38 hours.

- Biology Orientation Seminar. Satisfied by BIOL 105.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184), CHEM 190 (formerly CHEM 185), or CHEM 170.
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188), CHEM 195 (formerly CHEM 189), or CHEM 175.
- Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. CHEM 331 (formerly CHEM 625).
- Organic Chemistry II. Satisfied by CHEM 335 (formerly CHEM 626).
- Calculus I and II. Satisfied by MATH 115 & MATH 116 or MATH 121 & MATH 122 (or equivalent). Students who plan to attend graduate school should enroll in MATH 121 and 122.
- Physics. Satisfied by PHSX 211 & PHSX 216 and PHSX 212 & PHSX 236 or by PHSX 114 & PHSX 115.

Biochemistry Requirements 29 hours

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360 (BIOL 404 prior to Spring 2005).
- Biochemistry I. Satisfied by BIOL 636.
- Introductory Biochemistry Laboratory. Satisfied by BIOL 637.
- Biochemistry II. Satisfied by BIOL 638.
- Advanced Biochemistry Laboratory. Satisfied by BIOL 639.
- Gene Expression. Satisfied by BIOL 672.
- Senior Seminar in Biochemistry. Satisfied by BIOL 599 (BIOL 420 prior to Fall 2005). Must be taken in senior year.
- Biological Physical Chemistry. Satisfied by CHEM 510 (formerly CHEM 640).

Biochemistry Electives. Satisfied by completing at least 6 hours of biology courses numbered 400 or higher. These courses must be selected in consultation with a biochemistry advisor. Some suggested courses are BIOL 400 or BIOL 401, BIOL 408, BIOL 416 or BIOL 536, BIOL 417, BIOL 424, or BIOL 646. No more than 3 hours of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 34 35 hours of major courses.
Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 26 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Current Requirements with Proposed Changes in Red/Bold

Requirements for the B.A. Major in Biology

Major Course Requirements

General Science Requirements (28–30 hours).

- **Biology Orientation Seminar.** Satisfied by BIOL 105.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 195 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622) or CHEM 330 (formerly CHEM 624).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Calculus I. Satisfied by MATH 115 and MATH 116, MATH 121, or MATH 141.
- College Physics or General Physics I. Satisfied by PHSX 114 or by PHSX 211 & PHSX 216.
- College Physics or General Physics II. Satisfied by PHSX 115 or by PHSX 212 & PHSX 236.

Biology Core Requirements (24–25 hours).

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Evolutionary Biology. Satisfied by BIOL 412.
- Senior Seminar in Biology. Satisfied by BIOL 599 (BIOL 420 prior to spring 2006). Must be taken in senior year.
- Diversity of Organisms / Principles of Ecology / Introduction to Systematics. Satisfied by 1 of the following: BIOL 413, BIOL 414, or BIOL 428 (formerly BIOL 550).
- Fundamentals / Development / Function. Satisfied by 2 of the following: BIOL 400 or BIOL 401, BIOL 408, BIOL 416 or BIOL 536, BIOL 417, or BIOL 600.

Electives and Laboratory Requirements. Satisfied by completing 10 hours of BIOL courses numbered 400 or higher which include at least 4 hours of laboratory credit. Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hours of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

- **Biology Electives.** Satisfied by completing at least 6 hours of biology courses numbered 400 or higher.
- **Biology Laboratory Electives.** Satisfied by completing at least 4 hours of biology lab courses numbered 400 or higher. No more than 2 hours of BIOL 424 may be applied towards the laboratory requirement.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:
Major Hours
Satisfied by 34 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 26 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Current Requirements with Proposed Changes in Red/Bold

Requirements for the B.A. Major in Human Biology

General Science Requirements. Majors must complete the following 33-34 hour minimum of general science requirements that serve as foundational courses for this major.

- Fundamentals of Physical Anthropology. Satisfied by ANTH 304.
- **Biology Orientation Seminar. Satisfied by BIOL 105.**
- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Calculus. Satisfied by MATH 115 and MATH 116 or MATH 121 or MATH 141.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- College or General Physics I. Satisfied by PHSX 114 or by PHSX 211 & PHSX 216.
- Statistics. Satisfied by BIOL 570, PSYC 210 or MATH 365 (PSYC 300 was renumbered to PSYC 210 and the honors version to PSYC 211, as of fall 2010). BIOL 570 is recommended for the Anthropology and Biology Concentrations. **PSYC 210** is recommended for the Psychology Concentration.

Anthropology

Anthropology Concentration

Majors must complete the following 30-31 hours. These additional science courses are included in the Human Biology-Anthropology major hours and GPA calculations.

- Organic Chemistry I. CHEM 310 (formerly CHEM 622) or CHEM 330 (formerly CHEM 624).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Cell Structure & Function. Satisfied by BIOL 416 or BIOL 536.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Senior Seminar in Human Biology. Satisfied by BIOL 599 (must be taken in senior year).

Anthropology Concentration Categories

Satisfied by completing 2 of the following 4 categories (18-21 hours required):

**Human Anatomy and Physiology.** Satisfied by BIOL 417 and completing nine hours selected from the following courses: ANTH 542, ANTH 648, ANTH 650, BIOL 426, BIOL 440, BIOL 600, BIOL 637, BIOL 646, BIOL 647.

• Anatomy and Physiology. Satisfied by completing 9 hours from the following: ANTH 542, ANTH 648, ANTH 650, BIOL 426, BIOL 440, BIOL 600, BIOL 637, BIOL 646, BIOL 647.

Human Population Biology. Satisfied by completing 9 hours from the following: ANTH 340, ANTH 442, ANTH 544, ANTH 545, ANTH 652.

Human Adaptation and Evolution. Satisfied by completing 9 hours selected from the following: ANTH 350, ANTH 450, ANTH 555, ANTH 503, ANTH 549, ANTH 550.

Human Biology and Behavior. Satisfied by completing 9 hours selected from the following: ANTH 359, ANTH 447, ANTH 461, ANTH 754, PSYC 370, PSYC 536.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 30 31 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 30 31 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Applied Behavioral Science

Applied Behavioral Science Concentration

Majors must complete the following 32 33 hours. These additional science courses are included in the Human Biology-Applied Behavior Science major hours and GPA calculations.

• Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
• Introduction to Applied Behavioral Science. Satisfied by ABSC 100.
• Development. Satisfied by ABSC 160 or PSYC 333.
• Research Methods & Application. Satisfied by ABSC 308.
• Senior Seminar in Human Biology. Satisfied by BIOL 599. Must be taken in senior year.

Applied Behavioral Science Concentration Categories

Satisfied by completing 2 of the following 4 categories (18-21 hours required):

Applied Behavioral Science. Satisfied by ABSC 304 and completing 6 hours selected from the following courses: ABSC 150, ABSC 310 or ABSC 311, ABSC 350, ABSC 410, ABSC 437.

• Principles and Procedures of Applied Behavior Modification and Therapy. Satisfied by ABSC 304.
• Applied Behavioral Science. Satisfied by completing 6 hours selected from the following courses: ABSC 150, ABSC 310 or ABSC 311, ABSC 350, ABSC 410, ABSC 437.
Development: Typical and Atypical. Satisfied by **ABSC 632** and completing 6 hours selected from the following courses: **ABSC 535, ABSC 565, BIOL 417**.

- Child Behavior and Development. Satisfied by **ABSC 632**.
- Development: Typical and Atypical. Satisfied by completing 6 hours selected from the following courses: **ABSC 535, ABSC 565, BIOL 417**.

**Biology of Behavior.** Satisfied by **BIOL 408** and completing 6 hours selected from the following courses: **ANTH 542, BIOL 435, BIOL 440, BIOL 454, BIOL 464, BIOL 467, BIOL 655, PSYC 370, PSYC 380**.

- Physiology of Organisms. Satisfied by **BIOL 408**.
- Biology of Behavior. Satisfied by completing 6 hours selected from the following: **ANTH 542, BIOL 435, BIOL 440, BIOL 454, BIOL 464, BIOL 467, BIOL 655, PSYC 370, PSYC 380**.

**Evolution, Culture, and Behavior.** Satisfied by **BIOL 412** and completing 6 hours selected from the following courses: **ANTH 341, ANTH 415, ANTH 650, ANTH 661, BIOL/GEOG 410, BIOL 428** (formerly **BIOL 550, BIOL 625, BIOL 652**).

- Evolutionary Biology. Satisfied by **BIOL 412**.
- Evolution, Culture, and Behavior. Satisfied by completing 6 hours selected from the following: **ANTH 341, ANTH 415, ANTH 650, ANTH 661, BIOL/GEOG 410, BIOL 428** (formerly **BIOL 550, BIOL 625, BIOL 652**).

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by **32-33** hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of **24-30** hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the [Semester/Cumulative GPA Calculator](#).

**Biology**

**Biology Concentration**

Majors must complete the following **33** hours. These additional science courses are included in the Human Biology-Biology major hours and GPA calculations.

- Organic Chemistry I. Satisfied by **CHEM 310** (formerly **CHEM 622** or **CHEM 330** (formerly **CHEM 624**).
- Organic Chemistry I Laboratory. Satisfied by **CHEM 331** (formerly **CHEM 625**).
- College or General Physics II. Satisfied by **PHSX 115** or **PHSX 212 & PHSX 236**.
- Principles of Genetics. Satisfied by **BIOL 350** or **BIOL 360**.
- Senior Seminar in Human Biology. Satisfied by **BIOL 599** (must be taken in senior year).
Biology Laboratory Electives. Course selections from the following categories must include at least 3 hours of laboratory credit, 400 level or above.

**Biology Concentration Categories**

Satisfied by completing 2 of the following 4 categories listed below. (18-20 hours required) (Course selections must include at least 3 hours of laboratory credit, 400 level or above.)

**Development and Genetics.** Satisfied by BIOL 417 and 6 additional hours selected from the following: ABSC/PSYC 535, ANTH 762, BIOL 405, BIOL 416 or BIOL 536, BIOL 595, BIOL 655, BIOL 688, PSYC 333, PSYC 430, PSYC 531, SPLH 566.

**Anatomy and Physiology.** Satisfied by: BIOL 646 and completing six hours selected from the following courses: ANTH 542, ANTH 648, BIOL 435, BIOL 440, BIOL 647, BIOL 600, BIOL 637, HSES 672, PSYC 370, PSYC 380, PSYC 475.

**Evolution, Ecology, and Adaptation.** Satisfied by BIOL 412 and completing 6 hours selected from the following: ANTH 340, ANTH 341, ANTH 350, ANTH 652, BIOL 410, BIOL 414, BIOL 668, PSYC 555.

**Human Disease.** Satisfied by: BIOL 400 (or BIOL 401, Honors) and 6 hours selected from the following courses: ANTH 450, 555, BIOL 402, BIOL 503, BIOL 506, BIOL 512, BIOL 518, BIOL 595, BIOL 616, BIOL 688.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 33 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 28-30 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**Psychology**

**Psychology Concentration**

Majors must complete the following 31 hours. These additional science courses are included in the Human Biology-Psychology major hours and GPA calculations.

- Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622) or CHEM 330 (formerly CHEM 624).
- Organic Chemistry I Laboratory. CHEM 331 (formerly CHEM 625).
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Senior Seminar in Human Biology. Satisfied by BIOL 599. Must be taken in senior year.

**Psychology Concentration Categories**
Satisfied by completing 2 of the following 4 categories listed below. (18 hours required)

**Evolution, Adaptation and Health.** Satisfied by completing 9 hours selected from the following: PSYC 555, PSYC 605, ANTH 340, ANTH 341, ANTH 350, ANTH 442, ANTH 447, ANTH 450 555, ANTH 542, BIOL 412, BIOL 595.

**Human Development.** Satisfied by completing PSYC 333 or PSYC 334 and 6 hours selected from the following courses: PSYC 430, PSYC/ABSC 535, PSYC/ABSC 632, BIOL 417.

**Human Cognition and Language.** Satisfied by completing PSYC 318 and 6 hours selected from the following: PSYC 418, PSYC 482, PSYC 518, PSYC 531, PSYC 536, SPLH 466, SPLH 566.

**Neuroscience.** Satisfied by completing 9 hours selected from the following: PSYC 370, PSYC 380, PSYC 475, ANTH 650, BIOL 435, BIOL 454, BIOL 655, SPLH 320.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by ≥ 31 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of ≥ 28 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the [Semester/Cumulative GPA Calculator](#).

**Speech-Language-Hearing**

**Speech-Language-Hearing Concentration**

Majors must complete the following ≥ 30 hours. These additional science courses are included in the Human Biology-Speech-Language-Hearing major hours and GPA calculations.

- Physics. Satisfied by SPLH 120 or PHSX 115.
- Research Methods. Satisfied by SPLH 660.
- Genetics. Satisfied by BIOL 350 or BIOL 360.
- Senior Seminar in Human Biology. Satisfied by BIOL 599. Must be taken in senior year.

**Speech-Language-Hearing Concentration Categories.** Satisfied by completing 2 of the following 4 categories (18-19 hours required).

**Development and Genetics.** Satisfied by completing BIOL 417 and 6 hours selected from the following courses: ANTH 762, BIOL 405, BIOL 416 or BIOL 536, BIOL 595, BIOL 655, PSYC 333, PSYC 430, SPLH 464 or SPLH 764, SPLH 466, SPLH 566.

Development and Genetics. Satisfied by completing 6 hours selected from the following: ANTH 762, BIOL 405, BIOL 416 or BIOL 536, BIOL 595, BIOL 655, PSYC 333, PSYC 430, SPLH 464 or SPLH 764, SPLH 466, SPLH 566.

Anatomy and Physiology. Satisfied by completing BIOL 646 and 6 hours selected from the following: BIOL 440, BIOL 647, SPLH 662, SPLH 663, HSES 672.

- Mammalian Physiology. Satisfied by BIOL 646.
- Anatomy and Physiology. Satisfied by completing 6 hours selected from the following: BIOL 440, BIOL 647, SPLH 662, SPLH 663, HSES 672.

Neuroscience. Satisfied by completing BIOL 408 and 6 hours selected from the following: BIOL 435, PSYC 370, PSYC 380, PSYC 475, SPLH 320, SPLH 464 (Neural Bases of Speech & Voice), SPLH 464 (Speech Motor Control).

- Physiology of Organisms. Satisfied by BIOL 408
- Neuroscience. Satisfied by completing 6 hours selected from the following: BIOL 435, PSYC 370, PSYC 380, PSYC 475, SPLH 320, SPLH 464 (Neural Bases of Speech & Voice), SPLH 464 (Speech Motor Control).

Research Practicum. Satisfied by completing 9 hours selected from the following courses SPLH 464 (Circuit Theory & Bioinstrumentation), SPLH 449 (various topics), SPLH 499.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 29-30 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 26-27 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Requirements for the B.A. Major in Microbiology

Current Requirements with Proposed Changes in Red/Bold

**General Science Requirements**

**Microbiology General Science Requirements** (34-36 Hours)

- **Biology Orientation Seminar.** Satisfied by BIOL 105.
- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622) or CHEM 330 (formerly CHEM 624).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Calculus I. Satisfied by MATH 115 and MATH 116, MATH 121, or MATH 141.
• College Physics or General Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
• College Physics or General Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

Microbiology Core Knowledge & Skills (9-10 Hours)

• Fundamentals of Microbiology. Satisfied by BIOL 400 or BIOL 401.
• Fundamentals of Microbiology Laboratory. Satisfied by BIOL 402.
• Microbial Physiology or Introductory Biochemistry. Satisfied by BIOL 516 or BIOL 600.
• Senior Seminar: Current Progress in Microbiology. Satisfied by BIOL 599. Must be taken in senior year.

Microbiology Electives and Laboratory Requirements. Satisfied by completing 15 hours of microbiology courses, including 3 lab courses, selected from the following: BIOL 503, BIOL 504, BIOL 506, BIOL 507, BIOL 512, BIOL 513, BIOL 517, BIOL 518, or BIOL 519.

Microbiology Elective. Satisfied by completing 3 additional hours of biology courses numbered 400 or higher to be selected in consultation with a microbiology advisor.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 27 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 27 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Change to Existing Majors:
BS Biochemistry, BS Biology – Teaching Biology track, BS Microbiology

The following changes are requested for all of the above BS degree/major requirements:
  1. Change all general education requirements to Completion of the KU Core.
  2. Add BIOL 105 as both a requirement for admission to the major and as a general science requirement for the major.
  3. Increase the total credit hours required for the major as a result of the course credit hour change for BIOL 350/360 from 3 hours to 4 hours.

Requirements for the B.S. Degree in Biochemistry
Current Requirements with Proposed Changes in Red/Bold
General College Education Requirements

In addition to degree and major requirements, all students must complete the KU Core.

General Education offers opportunities for the development of core skills and critical inquiry, an understanding of the human condition, the natural world, and society, and the exploration of one's own and diverse cultures, all leading to greater civic engagement.

Written Communication – Core Skills and Critical Inquiry.

- Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature and Composition score of 3 or above, or equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Sophomore Reading and Writing. Satisfied by ENGL 203, or ENGL 205 (Honors), ENGL 209, ENG 210 or ENG 211, AP English Literature & Composition score of 5 or above, or an equivalent transfer course.

Argument & Reason - Core Skills and Critical Inquiry. Satisfied by completing COMS 130, COMS 131 (Honors), COMS 230, PHIL 148, PHIL 149, PHIL 310, or 1 year of high school speech or debate with B-level performance or above. Entering freshmen should consider 100-level options.

Western Civilization - Exploration of One's Own and Diverse Cultures. Satisfied by HWC 204, or HWC 114 (Honors), and HWC 205, or HWC 115 (Honors). Advising Alert: Requires sophomore-level standing. Courses at other universities may have the same title but may not meet this requirement.

Principal Course and/or Second Language Requirements. Satisfied by 5 courses, with a minimum of 1 course in social sciences (i.e., SC/SE/SI) and a minimum of 1 course in the humanities (i.e., HL/HR/HT). (No more than 1 course may be taken in each topical subgroup from the principal course list.) Three additional courses selected from the social sciences (i.e., SC/SE/SI) or humanities (i.e., HL/HR/HT) principal course list and or second language courses.

General Science Requirements. (38-39 or 39-40 hours) Majors must complete the following general science requirements that serve as foundational courses for this major.

- Biology Orientation Seminar. Satisfied by BIOL 105.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184), CHEM 190 (formerly CHEM 185), or CHEM 170.
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188), CHEM 195 (formerly CHEM 189), or CHEM 175.
- Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Organic Chemistry II. Satisfied by CHEM 335 (formerly CHEM 626) or CHEM 385 (formerly CHEM 630).
- Organic Chemistry II Laboratory. Satisfied by CHEM 336 (formerly CHEM 627).
- Calculus I & II. Satisfied by MATH 121 and MATH 122 (or equivalent).
- Physics. Satisfied by PHSX 211 & PHSX 216 and PHSX 212 & PHSX 236 or by PHSX 114 & PHSX 115.

Biochemistry Course Requirements. Satisfied by completing 33 or 34 hours from courses below.

- Principles of Molecular and Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Biochemistry I. Satisfied by BIOL 636.
- Introductory Biochemistry Laboratory. Satisfied by BIOL 637.
- Biochemistry II. Satisfied by BIOL 638.
- Advanced Biochemistry Laboratory. Satisfied by BIOL 639.
• Gene Expression. Satisfied by BIOL 672.
• Senior Seminar in Biochemistry. Satisfied by BIOL 599. Must be taken in senior year.
• Analytical Chemistry. Satisfied by CHEM 620 (formerly CHEM 516).
• Analytical Chemistry Laboratory. Satisfied by CHEM 621 (formerly CHEM 517).
• Physical Chemistry. Satisfied by CHEM 510 (formerly CHEM 640) or CHEM 530 (formerly CHEM 646).

**Biochemistry Required Electives.** Satisfied by completing 12 hours of BIOL courses numbered 400 or higher, which must be selected in consultation with a Biochemistry advisor. Some suggested courses include BIOL 400/ BIOL 401, BIOL 408, BIOL 416, BIOL 424, BIOL 430, BIOL 518, BIOL 688, or BIOL courses having a biochemistry course as prerequisite. No more than 3 hours of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 45-46 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 35-38 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**Requirements for the B.S. Degree in Biology (Teaching Biology)**

**Current Requirements with Proposed Changes in Red/Bold**

**General College Education Requirements**

In addition to degree and major requirements, all students must complete the KU Core.

Satisfied by completing 33 hours from the following:

**Written Communication – Core Skills and Critical Inquiry.**

• Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature and Composition score of 3 or above, or equivalent transfer course. Requirement must be completed within the first academic year at KU.

• Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.

• Sophomore Reading and Writing. Satisfied by ENGL 202, or ENGL 205 (Honors), ENGL 209, or ENGL 210 or ENGL 211, AP English Literature & Composition score of 5 or above, or an equivalent transfer course.

**Argument & Reason – Core Skills and Critical Inquiry.** Satisfied by COMS 130, COMS 131 (Honors), COMS 230, PHIL 148, PHIL 149, PHIL 310, or 1 year of high school speech or debate with B-level performance or above. Entering freshmen should consider 100-level options.
Western Civilization - Exploration of One's Own and Diverse Culture. Satisfied by HWC 204, or HWC 114 (Honors), and HWC 205, or HWC 115 (Honors). Advising Alert: Requires sophomore-level standing. Courses at other universities may have the same title but may not meet this requirement.

Principal Course and/or Second Language Requirements. Satisfied by 5 courses with a minimum of 1 course in social sciences and a minimum of 1 course in social sciences (i.e., SC/ SF/ SI) and a minimum of 1 course in the humanities (i.e., HL/ HR/ HT). (No more than 1 course may be taken in each topical subgroup from the principal course list.) Three additional courses selected from the social sciences (i.e., SC/ SF/ SI) or humanities (i.e., HL/ HR/ HT) principal course list and/or second language courses.

Teaching Biology

General Science Requirements. Majors must complete the following 30-31 hours of general science requirements that serve as foundational courses for this major.

- **Biology Orientation Seminar. Satisfied by BIOL 105.**
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622), CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
- Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

Teaching Biology Course Requirements. Satisfied by completing 30-34 32-33 hours of course work below.

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Evolutionary Biology. Satisfied by BIOL 412.
- Cell Structure & Function. Satisfied by BIOL 416 or BIOL 536.
- Research Methods. Satisfied by BIOL 598.
- Senior Seminar. Satisfied by BIOL 599 (must be taken in senior year).
- Choose 1 Course. Satisfied by BIOL 413 or BIOL 428 (formerly 550).
- Choose 1 Course. Satisfied by BIOL 400 or BIOL 401, BIOL 408, or BIOL 600.

Teaching Biology Required Electives and Laboratory. Satisfied by 7 hours of BIOL courses numbered 400 or higher which include at least 4 hours of laboratory credit. Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hours of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

- Laboratory. Satisfied by completing a minimum of 4 hours of biology laboratory courses numbered 400 or higher. Some course limits apply, including no more than 2 hours of BIOL 423/424 allowed toward Lab requirement.
- Teaching Biology Elective. Satisfied by completing a minimum of 3 hours of BIOL courses numbered 400 or higher. No more than 3 hours of BIOL 423/424 allowed toward Elective requirement.

Teaching Biology Education Requirements. Students who are seeking classroom certification must complete the following requirements through the School of Education.

- Approaches to Teaching Science and Mathematics I. Satisfied by LA&S 290.
- Approaches to Teaching Science and Mathematics II. Satisfied by LA&S 291.
• Knowing and Learning in Mathematics & Science. Satisfied by C&T 360.
• Classroom Interactions in Mathematics and Science. Satisfied by C&T 366.
• Reading and Writing Across the Curriculum. Satisfied by C&T 448.
• Project-Based Instruction in Mathematics & Science. Satisfied by C&T 460.
• Student Teaching. Satisfied by C&T 500.
• Special Topics Seminar. Satisfied by C&T 598.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 39-40 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 31-32 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Requirements for the B.S. Degree in Microbiology

Current Requirements with Proposed Changes in Red/Bold

General College Education Requirements

In addition to degree and major requirements, all students must complete the KU Core.

Written Communication - Core Skills and Critical Inquiry.
• Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature and Composition score of 3 or above, or equivalent transfer course. Requirement must be completed within the first academic year at KU.
• Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
• Sophomore Reading and Writing. Satisfied by ENGL 203, or ENGL 205 (Honors), ENGL 209, ENGL 210, ENGL 211, AP English Literature & Composition score of 5 or above, or an equivalent transfer course.

Argument & Reason – Core Skills and Critical Inquiry.
Satisfied by completing COMS 130, COMS 131 (Honors), COMS 230, PHIL 148, PHIL 149, PHIL 310, or one year of high school Speech or Debate with B level performance or above. Entering freshmen should consider 100 level options.

Western Civilization – Exploration of One's Own and Diverse Cultures.
Satisfied by HWC 204, or HWC 114 (Honors), and HWC 205, or HWC 115 (Honors). Advising Alert: Requires sophomore level standing. Courses at other universities may have the same title but may not meet this requirement.
Principal Course and/or Second Language Requirements. Satisfied by 5 courses with a minimum of 1 course in social sciences (i.e., SC/SF/SI) and a minimum of 1 course in the humanities (i.e., HL/HR/HT). (No more than 1 course may be taken in each topical subgroup from the principal course list.) Three additional courses selected from the social sciences (i.e., SC/SF/SI) or humanities (i.e., HL/HR/HT) principal course list and/or second language courses.

Microbiology Course Requirements

General Science Requirements. Majors must complete 49–51 51-53 hours of the following general science requirements that serve as foundational courses for this major.

- Biology Orientation Seminar. Satisfied by BIOL 105.
- Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Organic Chemistry II. Satisfied by CHEM 335 (formerly CHEM 626) or CHEM 385 (formerly CHEM 630).
- Organic Chemistry II Laboratory. Satisfied by CHEM 336 (formerly CHEM 627).
- Physics. Satisfied by PHSX 114 & PHSX 115 or by PHSX 211 & PHSX 216 and PHSX 212 & PHSX 236.
- Calculus. Satisfied by MATH 115 & MATH 116 or MATH 121.
- Statistics. Satisfied by BIOL 570 or MATH 365 or PSYC 210.
- Biochemistry I. Satisfied by BIOL 636.
- Biochemistry II. Satisfied by BIOL 638.

Microbiology Course Requirements. Satisfied by completing 29 hours from the following courses:

- Fundamentals of Microbiology. Satisfied by BIOL 400 or BIOL 401.
- Fundamentals of Microbiology Laboratory. Satisfied by BIOL 402.
- Cell Structure & Function. Satisfied by BIOL 416 or BIOL 536.
- Immunology. Satisfied by BIOL 503.
- Immunology Laboratory. Satisfied by BIOL 504.
- Pathogenic Microbiology. Satisfied by BIOL 506.
- Pathogenic Microbiology Laboratory. Satisfied by BIOL 507.
- General Virology. Satisfied by BIOL 512.
- Virology Laboratory. Satisfied by BIOL 513.
- Microbial Genetics. Satisfied by BIOL 518.
- Microbial Genetics Laboratory. Satisfied by BIOL 519.
- Senior Seminar - Current Progress in Microbiology. Satisfied by BIOL 599. Must be taken in senior year.

Microbiology Required Electives. Satisfied by completing 6 hours of BIOL courses numbered 400 or higher, which must be selected in consultation with a microbiology advisor.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 35 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.
Major Junior/Senior Hours
Satisfied by a minimum of 35 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Change to Existing Majors:
BS Molecular Biosciences
The following changes are requested for the above BS degree/major requirements:
1. Change all general education requirements to Completion of the KU Core.
2. Add BIOL 105 as both a requirement for admission to the major and as a general science requirement for the major.
3. Increase the total credit hours required for the major as a result of the course credit hour change for BIOL 350/360 from 3 hours to 4 hours.
4. Include BIOL 570 as part of the Core requirements for the major. This course was previously included in the general science requirements but was not a part of the major.
5. Add BIOL 601 as a Core requirement for the major.
6. Add 1 hour to the required electives (from 11 to 12), and REMOVE the requirement that 2 of these hours must be lab credit.
7. Add BIOL 421 as an option for the 2 hours of seminar/topics courses.
8. Remove CHEM 336, MATH 365, and PSYC 210 as general science requirements.

Requirements for the B.S. Degree in Molecular Biosciences
Current Requirements with Proposed Changes in Red/Bold

General College Education Requirements
In addition to degree and major requirements, all students must complete the KU Core.

General education offers opportunities for the development of core skills and critical inquiry, an understanding of the human condition, the natural world, and society, and the exploration of one’s own and diverse cultures, all leading to greater civic engagement.

Written Communication – Core Skills and Critical Inquiry.
- Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature and Composition score of 3 or above, or equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Sophomore Reading and Writing. Satisfied by ENGL 202, or ENGL 205 (Honors), ENGL 209, ENGL 210, ENGL 211, ENGL 362, AP English Literature & Composition score of 5 or above, or an equivalent transfer course.

Argument & Reason – Core Skills and Critical Inquiry. Satisfied by completing COMS 130, COMS 131 (Honors), COMS 230, PHIL 148, PHIL 149, PHIL 310, or one year of high school Speech or Debate with B level performance or above. Entering freshmen should consider 100 level options.

Western Civilization – Exploration of One’s Own and Diverse Cultures. Satisfied by HWC 204, or HWC 114 (Honors), and HWC 205, or HWC 115 (Honors). Advising Alert: Requires sophomore level standing. Courses at other universities may have the same title but may not meet this requirement.
**Principal Course and/or Second Language Requirements.** Satisfied by 5 courses with a minimum of 1 course in social sciences (i.e., SC/SE/SE) and a minimum of 1 course in the humanities (i.e., HL/HR/HT). (No more than 1 course may be taken in each topical subgroup from the Principal course list.) Three additional courses selected from the social sciences (i.e., SC/SE/SE) or humanities (i.e., HL/HR/HT) principal course list and/or second language courses.

**Major Course Requirements**

This degree is offered at the Edwards Campus ONLY. Junior/Senior level BIOL courses for this degree must be completed at the Edwards Campus. Declaration of Major forms for Molecular Biosciences must be signed by an Edwards campus advisor. Contact Dan Mueller at 913-897-8659 (x48659) for more information.

**General Science Requirements.** (36-38 32-34 hours) Majors must complete the following general science requirements that serve as foundational courses for this major.

- **Biology Orientation Seminar. Satisfied by BIOL 105.**
- **Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).**
- **Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).**
- **Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).**
- **Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).**
- **Organic Chemistry II. CHEM 335 (formerly CHEM 626) or CHEM 385 (formerly CHEM 630).**
- **Organic Chemistry II Laboratory. Satisfied by CHEM 336 (formerly CHEM 627).**
- **Calculus. Satisfied by MATH 115 and MATH 116 or MATH 121.**
- **Statistics. Satisfied by. MATH 365, or PSYC 210.**
- **Physics. Satisfied by PHSX 114 and PHSX 115 or by PHSX 211 & PHSX 216 and PHSX 212 & PHSX 236.**

**Molecular Biosciences Course Requirements.** Satisfied by completing 29 35 hours from courses below.

- **Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.**
- **Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.**
- **Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.**
- **Fundamentals of Microbiology. Satisfied by BIOL 400 or BIOL 401.**
- **Fundamentals of Microbiology Laboratory. Satisfied by BIOL 402.**
- **Laboratory in Genetics. Satisfied by BIOL 405.**
- **Cell Structure & Function. Satisfied by BIOL 416 or BIOL 536.**
- **Molecular Biology Laboratory. Satisfied by BIOL 430.**
- **Introduction to Biostatistics. Satisfied by BIOL 570**
- **Introductory Biochemistry. Satisfied by BIOL 600.**
- **Principles of Biochemistry Laboratory. Satisfied by BIOL 601.**

**Senior Seminar in Molecular Biosciences.** Satisfied by BIOL 599. Must be taken in senior year. Offered only at the Edwards Campus.

**Molecular Bioscience Required Electives (4-12 hours required.)** Satisfied by completing 4-12 hours of BIOL courses numbered 400 or higher, including at least 2 hrs. of lab credit and 2 hrs. of a seminar/topics course (BIOL 419, 420, 421, 701). No more than 3 hrs. of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 49 47 hours of major courses.
Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 32-39 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Change to Existing Majors and Combine existing tracks to create new tracks:
BS Biology – Ecology and Evolutionary Biology and Organismal tracks combine into Ecology, Evolution, and Organismal Biology Track
BS Biology – Cellular, Genetics, and Neurobiology tracks combine into Molecular, Cellular, and Developmental Biology Track
1. Combine five existing tracks into two new tracks.
2. As a part of the new curriculum, include BIOL 105 in both the admissions and general science requirement for the major.

Current Requirements for the BS Biology, Ecology & Evolutionary Biology Track, and the Organismal Biology Track:

Requirements for the B.S. Degree in Biology

General College Requirements

Satisfied by completing 33 hours from the following:

Written Communication - Core Skills and Critical Inquiry.

- Composition. Satisfied by ENGL 101, ACT English score of 27 or above or SAT English score of 600 or above, AP English Literature and Composition score of 3 or above, or equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Critical Reading and Writing. Satisfied by ENGL 102, or ENGL 105 (Honors), AP English Literature & Composition score of 4 or above, or an equivalent transfer course. Requirement must be completed within the first academic year at KU.
- Sophomore Reading and Writing. Satisfied by ENGL 203, or ENGL 205 (Honors), ENGL 209, or ENGL 210 or ENGL 211, AP English Literature & Composition score of 5 or above, or an equivalent transfer course.

Argument & Reason - Core Skills and Critical Inquiry. Satisfied by COMS 130, COMS 131 (Honors), COMS 230, PHIL 148, PHIL 149, PHIL 310, or 1 year of high school speech or debate with B-level performance or above. Entering freshmen should consider 100-level options.

Western Civilization - Exploration of One's Own and Diverse Culture. Satisfied by HWC 204, or HWC 114 (Honors), and HWC 205, or HWC 115 (Honors). Advising Alert: Requires sophomore-level standing. Courses at other universities may have the same title but may not meet this requirement.

Principal Course and/or Second Language Requirements. Satisfied by 5 courses with a minimum of 1 course in social sciences and a minimum of 1 course in social sciences (i.e., SC/SF/SI) and a minimum of 1 course in the humanities (i.e., HL/HR/HT). (No more than 1 course may be taken in each topical subgroup from the principal course list.) Three additional courses selected from the social sciences (i.e., SC/SF/SI) or humanities (i.e., HL/HR/HT) principal course list and/or second language courses.
Ecology and Evolutionary Biology

**General Science Requirements.** Majors must complete the following 26-28 hours of general science requirements that serve as foundational courses for this major.

- Chemistry I. Satisfied by **CHEM 130** (formerly **CHEM 184**) or **CHEM 190** (formerly **CHEM 185**).
- Chemistry II. Satisfied by **CHEM 135** (formerly **CHEM 188**) or **CHEM 195** (formerly **CHEM 189**).
- Organic Chemistry I. Satisfied by **CHEM 310** (formerly **CHEM 622**), **CHEM 330** (formerly **CHEM 624**) or **CHEM 380** (formerly **CHEM 628**).
- Calculus I. Satisfied by **MATH 115** and **MATH 116**, or **MATH 121** or **MATH 141**.
- Physics I. Satisfied by **PHSX 114**, by **PHSX 211 & PHSX 216**, or by **PHSX 213**.
- Physics II. Satisfied by **PHSX 115**, by **PHSX 212 & PHSX 236**, or by **PHSX 214**.

**General Biology Requirements.** Satisfied by completing 17-18 hours from courses below. These additional science courses are included in the Ecology and Evolutionary Biology major hours and GPA calculations.

- Principles of Molecular & Cellular Biology. Satisfied by **BIOL 150** or **BIOL 151**.
- Principles of Organismal Biology. Satisfied by **BIOL 152** or **BIOL 153**.
- Principles of Genetics. Satisfied by **BIOL 350** or **BIOL 360**.
- Choose 2 Courses. Satisfied by completing 2 of the following courses **BIOL 408**, **BIOL 416** or **BIOL 536**, **BIOL 417**, or **BIOL 600**.

**Ecology and Evolutionary Biology Course Requirements.** Satisfied by completing 18 hours of course work below.

- Evolutionary Biology. Satisfied by **BIOL 412**.
- History & Diversity of Organisms. Satisfied by **BIOL 413**.
- Principles of Ecology. Satisfied by **BIOL 414** or **BIOL 514**.
- Laboratory Methods in Ecology. Satisfied by **BIOL 415**.
- Introduction to Systematics. Satisfied by **BIOL 428** (formerly **BIOL 550**).
- Introduction to Biostatistics. Satisfied by **BIOL 570**.
- Senior Seminar in Ecology & Evolutionary Biology. Satisfied by **BIOL 599** (must be taken in senior year).

**Ecology & Evolutionary Biology Required Electives, Laboratory, and Seminar.** Satisfied by completing 13 hours of **BIOL** courses numbered 400 or higher which include at least 3 hrs. of laboratory credit and 2 hrs. of a seminar or topics course (**BIOL 419**, **420**, **499**, **701**). Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hrs. of **BIOL 423** Non-Lab Independent Study and/or **BIOL 424** Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of **BIOL 424** being applied towards the laboratory requirement.

- Seminar. Satisfied by completing at least 2 hours of seminar or topics course (**BIOL 419**, **420**, **499**, or **BIOL 701**).
- Laboratory. Satisfied by completing at least 3 hours of laboratory courses. No more than 2 hours of **BIOL 423/424** count toward lab requirement.
- Ecology and Evolutionary Biology Electives. Satisfied by completing 8 hours from **BIOL** courses numbered 400 or higher. No more than 3 hours of **BIOL 423/424** allowed toward elective requirement.

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 48 hours of major courses.
Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 40 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Organismal Biology

General Science Requirements. Majors must complete the following 28-30 hours of general science requirements that serve as foundational courses for this major.

- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622), CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
- Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

General Biology Requirements. Satisfied by completing 18 hours from courses below. These additional science courses are included in the Organismal Biology major hours and GPA calculations.

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Evolutionary Biology. Satisfied by BIOL 412.
- Introductory Biochemistry. Satisfied by BIOL 600.

Organismal Biology Course Requirements. Satisfied by completing 21 hours of course work below.

- Physiology of Organisms. Satisfied by BIOL 408.
- Physiology of Organisms Laboratory. Satisfied by BIOL 409.
- History & Diversity of Organisms. Satisfied by BIOL 413.
- Senior Seminar in Organismal Biology. Satisfied by BIOL 599. Must be taken in senior year.
- Choose 1 course. Satisfied by choosing 1 course from the following: BIOL 416, BIOL 414, or BIOL 428 (formerly BIOL 550).

Students must take at least 1 course from each of the following three groups.

Development & Morphology. Satisfied by choosing 1 course from following: BIOL 417, BIOL 440, BIOL 510, BIOL 528 or BIOL 708, BIOL 545.

Function. Satisfied by choosing 1 course from following: BIOL 435, BIOL 503, BIOL 506, BIOL 526 or BIOL 716, BIOL 606, BIOL 644, BIOL 646, BIOL 652, BIOL 655, BIOL 667, BIOL 673.

Diversity. Satisfied by choosing 1 course from following: ANTH 440, BIOL 400 or BIOL 401, BIOL 494, BIOL 500, BIOL 505, BIOL 509, BIOL 512, BIOL 521 or BIOL 711, BIOL 529, or BIOL 709, BIOL 533, BIOL 540, BIOL 583 or BIOL 783, BIOL 592 or BIOL 792, BIOL 593, BIOL 603, BIOL 610, BIOL 613, BIOL 622, BIOL 640.
Organismal Biology Required Electives, Laboratory, and Seminar. Satisfied by 10 hours of BIOL courses numbered 400 or higher, including at least 2 hrs. of lab credit and 1 hr. of a seminar/topics course (BIOL 419, 420, 499, 701). Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hrs. of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

- Seminar/Topics course. Satisfied by a minimum of 1 hour of seminar: BIOL 419, BIOL 420, BIOL 499, or BIOL 701.
- Laboratory. Satisfied by a minimum of 2 hours of BIOL laboratory credit, 400 level or higher. No more than 2 hours of BIOL 423/424 allowed toward Lab requirement.
- Organismal Biology Electives. Satisfied by a minimum of 7 hours of BIOL courses numbered 400 or higher. No more than 3 hours of BIOL 423/424 allowed toward elective requirement.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 50 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 41 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Proposed Requirements for the New Track - BS Biology-Ecology, Evolution, and Organismal Biology:

General Education Requirements

In addition to degree and major requirements, all students must complete the KU Core.

1. General Science Requirements (31-33 hrs)
   - BIOL 105 Biology Orientation Seminar (1)
   - CHEM 130 (170; 190 honors) General Chemistry I (5)
   - CHEM 135 (175; 195 honors) General Chemistry II (5)
   - CHEM 310 Fundamentals of Organic Chemistry or CHEM 330 (380 honors) Organic Chemistry I (3)
   - BIOL 600 Introductory Biochemistry, Lectures (4)
   - MATH 115 & MATH 116 Calculus I & II (6) or MATH 121 Calculus I (5)
   - PHSX 114 and PHSX 115 College Physics I & II (8) or PHSX 211/216 & PHSX 212/236 General Physics I & II (9)

Ecology Evolution & Organismal Biology Requirements (28 hrs)
   - BIOL 150 (151 honors) Principles of Molecular & Cellular Biology (4)
   - BIOL 152 (153 honors) Principles of Organismal Biology (4)
   - BIOL 350 (360 honors) Principles of Genetics (4)
   - BIOL 408 Physiology of Organisms (3)
   - BIOL 412 Evolutionary Biology (4)
   - BIOL 414 Principles of Ecology (3)
BIOL 428 Introduction to Systematics or
BIOL 413 History and Diversity of Organisms (3)
BIOL 570 Introduction to Biostatistics (3)
BIOL 599 Senior Seminar in EEOB (1) (must be taken in senior year)

Ecology Evolution & Organismal Biology Electives (18 hrs)
BIOL courses numbered 400 or higher, including at least 4 hrs of lab credit and 2 hrs of seminar/topics
course (BIOL 419, 420, 499, 701). No more than 5 hrs of BIOL 423 Non-Lab Independent Study and/or
BIOL 424 Independent Study (combined) can be applied to the elective requirement, with no more than 2 hrs
of BIOL 424 being applied to the laboratory requirement. The Undergraduate Biology Program must
approve exceptions to these elective requirements.

Major Hours
Satisfied by 48 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 39 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations
include all junior/senior courses in the field of study including F’s and repeated courses. See the
Semester/Cumulative GPA Calculator.

Current Requirements for the BS Biology, Cellular, Genetics, and Neurobiology Tracks:

Cellular Biology

General Science Requirements. Majors must complete the following 31-33 hours of general science requirements that
serve as foundational courses for this major.

- Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
- Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
- Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
- Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
- Organic Chemistry II. Satisfied by CHEM 335 (formerly CHEM 626) or CHEM 385 (formerly CHEM 630).
- Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
- Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

General Biology Requirements. Satisfied by completing 21 hours from courses below. These additional science
courses are included in the Cellular Biology major hours and GPA calculations.

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Physiology of Organisms. Satisfied by BIOL 408.
- Evolutionary Biology. Satisfied by BIOL 412.
- Introductory Biochemistry. Satisfied by BIOL 600.

Cellular Biology Course Requirements. Satisfied by completing 19 hours of course work below.

- Cell Structure & Function. Satisfied by BIOL 416 or BIOL 536.
• Laboratory in Cell Biology. Satisfied by BIOL 426.
• Senior Seminar in Cell Biology. Satisfied by BIOL 599. Must be taken in senior year.

Cell Biology Electives. Satisfied by completing 9 hours from the following: BIOL 400 or BIOL 401, BIOL 402, BIOL 435, BIOL 503, BIOL 504, BIOL 512, BIOL 513, BIOL 570, BIOL 646, BIOL 673, BIOL 688, BIOL 719, BIOL 752, BIOL 755, BIOL 756

Seminar/Laboratory Requirements. At least 2 hours of laboratory credit (BIOL laboratories numbered 400 or higher) and 2 hours of a seminar/topics course (BIOL 419, 420, 499, 701).

• Seminar. Satisfied by BIOL 419, BIOL 420, BIOL 499, or BIOL 701
• Laboratory. Satisfied by completing 2 hours of lab course work.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 45 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 37 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Genetics

General Science Requirements. Majors must complete the following 28-30 hours of general science requirements that serve as foundational courses for this major.

*Students planning to enter graduate school (particularly those interested in applying molecular techniques) or medical school are advised to also enroll in CHEM 335 (formerly CHEM 626) and CHEM 336 (formerly CHEM 627).

• Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
• Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
• Organic Chemistry I. Satisfied by CHEM 310 (formerly CHEM 622), CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
• Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
• Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
• Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
• Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

General Biology Requirements. Satisfied by completing 24 hours from courses below. These additional science courses are included in the Genetics major hours and GPA calculations.

• Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
• Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
• Evolutionary Biology. Satisfied by BIOL 412.
• Cell Structure and Function. Satisfied by BIOL 416 or BIOL 536.
• Introduction to Biostatistics. Satisfied by BIOL 570.
• Introductory Biochemistry. Satisfied by BIOL 600.
• Choose 1 Course. Satisfied by BIOL 400 or BIOL 401, BIOL 408, or BIOL 417.

Genetics Course Requirements. Satisfied by completing 15 hours of the following:

• Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
• Laboratory in Genetics. Satisfied by BIOL 405.
• Gene Expression. Satisfied by BIOL 672.
• Senior Seminar in Genetics. Satisfied by BIOL 599. Must be taken in senior year.
• Choose 2 courses. Satisfied by choosing 2 from the following: BIOL 512, BIOL 518, BIOL 595, BIOL 655, BIOL 688, BIOL 743, BIOL 747, BIOL 753, BIOL 755, ANTH 340, ANTH 442, ANTH 652.

Genetics Required Electives, Laboratory, and Seminar. Satisfied by completing 8 hours of BIOL courses numbered 400 or higher, including at least 3 hrs. of lab credit and 2 hrs. of a seminar/topics course (BIOL 419, 420, 499, 701). Courses listed above which have not been used to fulfill the above requirements may be used as electives. No more than 3 hrs. of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

• Seminar. Satisfied by a minimum of 2 hours of seminar or topics course (BIOL 419, BIOL 420, BIOL 499, or BIOL 701).
• Laboratory. Satisfied by a minimum of 3 hours of BIOL laboratory credit, 400 level or higher.
• Electives. Satisfied by choosing 3 additional hours in BIOL courses numbered 400 or higher.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 47 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 39 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Neurobiology

General Science Requirements. Majors must complete the following 31-33 hours of general science requirements that serve as foundational courses for this major.

• Chemistry I. Satisfied by CHEM 130 (formerly CHEM 184) or CHEM 190 (formerly CHEM 185).
• Chemistry II. Satisfied by CHEM 135 (formerly CHEM 188) or CHEM 195 (formerly CHEM 189).
• Organic Chemistry I. Satisfied by CHEM 330 (formerly CHEM 624) or CHEM 380 (formerly CHEM 628).
• Organic Chemistry I Laboratory. Satisfied by CHEM 331 (formerly CHEM 625).
• Organic Chemistry II. Satisfied by CHEM 335 (formerly CHEM 626) or CHEM 385 (formerly CHEM 630).
• Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
• Physics I. Satisfied by PHSX 114, by PHSX 211 & PHSX 216, or by PHSX 213.
• Physics II. Satisfied by PHSX 115, by PHSX 212 & PHSX 236, or by PHSX 214.

General Biology Requirements. Satisfied by completing 21-23 hours from courses below. These additional science courses are included in the Neurobiology major hours and GPA calculations.

• Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
• Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
• Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
• Evolutionary Biology. Satisfied by BIOL 412.
• Diversity of Organisms or Principles of Ecology. Satisfied by BIOL 413 or BIOL 414.
• Biochemistry. Satisfied by BIOL 600 or BIOL 636 & BIOL 638.

Neurobiology Course Requirements. Satisfied by completing 15-16 hours of course work below.

• Cell Structure and Function. Satisfied by BIOL 416 or BIOL 536.
• Biology of Development. Satisfied by BIOL 417.
• Biology Laboratory. Satisfied by BIOL 405, BIOL 426, or BIOL 427.
• Introduction to Neurobiology. Satisfied by BIOL 435.
• Advanced Neurobiology. Satisfied by BIOL 650
• Senior Seminar in Neurobiology. Satisfied by BIOL 599. Must be taken in senior year.

Neurobiology Required Electives. Satisfied by completing 12 hours of course work below.

• Choose 3 courses. Satisfied by choosing 3 courses (9 hours) from the following: BIOL 454, BIOL 570, BIOL 646, BIOL 647, BIOL 652, BIOL 655, BIOL 672, BIOL 673, BIOL 676, BIOL 755, BIOL 775, or BIOL 777.

Additional Biology Electives. Satisfied by choosing any BIOL course at the 400-level or above. No more than 3 hours of BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 49 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 41 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

Proposed Requirements for the New Track - BS Biology-Molecular, Cellular, and Developmental Biology
**General Education Requirements**

*In addition to degree and major requirements, all students must complete the KU Core.*

**II. General Science Requirements** (35-37 hrs)

- BIOL 105 Biology Orientation Seminar (1)
- CHEM 130 (170; 190 honors) General Chemistry I (5)
- CHEM 135 (175; 195 honors) General Chemistry II (5)
- CHEM 330 (380 honors) Organic Chemistry I (3)
- CHEM 331 Organic Chemistry I Laboratory (2)
- CHEM 335 (385 honors) Organic Chemistry II (3)
- MATH 121 Calculus I (5) or
- MATH 115 & MATH 116 Calculus I & II (6)
- BIOL 570 Intro to Biostatistics or
- MATH 365 Elementary Statistics or
- PSYC 210 Statistics Psychological Research (3)
- PHSX 114 and PHSX 115 College Physics I & II (8) or
- PHSX 211/216 & PHSX 212/236 General Physics I & II (9)

**Molecular Cellular & Developmental Biology Requirements** (34-35 hrs)

- BIOL 150 (151 honors) Principles of Molecular & Cellular Biology (4)
- BIOL 152 (153 honors) Principles of Organismal Biology (4)
- BIOL 350 (360 honors) Principles of Genetics (4)
- BIOL 412 Evolutionary Biology (4)
- BIOL 405 Laboratory in Genetic (2) or
- BIOL 426 Laboratory in Cell Biology (3) or
- BIOL 427 Developmental Biology Laboratory (2)
- BIOL 416 (536 honors) Cell Structure and Function (3)
- BIOL 417 Biology of Development (3)
- BIOL 435 Introduction to Neurobiology (3)
- BIOL 599 Senior Seminar in MCDB (1) (must be taken in senior year)
- BIOL 600 Introductory Biochemistry Lectures (4)
- BIOL 650 Advanced Neurobiology or
- BIOL 672 Gene Expression or
- BIOL 688 Molecular Biology of Cancer (3)

**Molecular Cellular & Developmental Biology Electives** (12 hrs)

Any Biology courses numbered 400 or higher; with no more than 3 hrs BIOL 423 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) may be used to fulfill the elective requirement.

**Major Hours**

Satisfied by 47-48 hours of major courses.

**Major Hours in Residence**

Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**

Satisfied by a minimum of 39-40 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**

Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**Rationale**

1) We are proposing that all of the Bachelor of Science biology degrees (Biochemistry, Biology, Microbiology, Molecular Biosciences) adopt the KU Core curriculum. The current CLAS general education requirements will be deleted from all B.S. biology degrees. Considering the challenging nature of implementing the KU Core and the lack of
meaningful communication regarding this process as it relates to the B.S. degrees in CLAS, we are requesting that serious consideration be given for allowing this change to take affect Fall 2013.

There are two rationales for making this change. First, there are redundancies between the KU Core requirements and the College General Education requirements that make this change relatively straightforward. Requiring students to satisfy the KU Core will thus be less confusing compared to adding another layer of requirements on top of the KU Core that was added to existing B.S. degrees in the biological sciences starting Fall 2013. Second, incorporating the KU Core into the B.S. biology degrees will better align the non-science requirements of the B.S. degrees with the B.A. degrees in the biological sciences.

[THIS PART OF THE PROPOSAL WAS NOT APPROVED BY THE SUBCOMMITTEE BECAUSE CURRENT STUDENTS COULD POTENTIALLY BE NEGATIVELY AFFECTED IF THEIR REQUIREMENTS WERE CHANGED TO THE KU CORE.]

2) We are proposing to eliminate five B.S. Biology subplans (B.S. biology deletions.docx) and replace them with two subplans (EEOB proposal.docx and MCDB proposal.docx). The B.S. Biology/Teaching Biology subplan will be retained.

The new B.S. Biology/EEOB concentration combines the requirements of Ecology & Evolutionary Biology and Organismal Biology concentrations while expanding the educational opportunities for students, simplifies options available to students while offering the breadth of both original concentrations, and reducing the necessity for students to choose between two related options. The new EEOB curriculum aligns with other such programs nationally. Cell biology, genetics, and neurobiology concentrations contain significant overlapping requirements. The new B.S. Biology/MCDB simplifies those requirements into one concentration, removes confusion when students are deciding on a course of study, better addressed the undergraduate educational needs for students entering into this area of the biological sciences, aligns with the graduate MCDB program, and is recognized nationally as an established course of study in the molecular biosciences.

3) Forms for changes to all biology degrees are attached to reflect the addition of BIOL 105 to all degree requirements and a requirement for admission to all biology majors and the increase in credit hours for BIOL 350 and BIOL 360 to four credits. Additional changes to the B.S. Molecular Biosciences degree at Edwards are also being proposed and are included in the attached form (MB proposal.docx).

BIOL 105 is a one credit on-line course modeled after PSYC 102, Orientation Seminar in Psychology, and will serve to introduce prospective biology majors to information about majoring in the biological sciences (various degree options, requirements, etc.), academic advising, research opportunities, careers in the biological sciences, and preparation for such careers. Completion of BIOL 105, a S/U course, will better inform students of the opportunities within the biological sciences. The essential information contained within BIOL 105 will enhance students’ ability to successfully complete a biology degree and, therefore, the completion of BIOL 105 will be required as part of the admissions requirements for all biology majors.

The additional changes will strengthen the core curriculum in the B.S. Molecular Biosciences degree while offering greater flexibility in satisfying the elective requirements.

BIOL 412 Evolutionary Biology is currently a 3-credit class with the average enrollment of approximately 200 students. The course meets two times per week (1 hour and 15 minutes each) in a lecture format. In addition, the course requires that the students enroll in smaller discussion sections (approximately 20 students per section) that meet for 50 minutes each week. These discussion sections allow students to work through problems sets, discuss core issues that were presented in lecture and review for the exams. There are often graded assignment and/or readings required for these sections. These discussion sections provide opportunities for more in depth exploration of the material presented in lecture and have been important for student learning. Because these sections are required and include assignments, BIOL 412 has the expectations of a 4-credit course. Increasing the credit hours from 3 to 4 would appropriately reflect the expected work-load. This would enable students to plan their time accordingly and to receive credit that is more commensurate with their effort. This plan is supported by Paulyn Cartwright and Lena Hileman from Ecology and Evolutionary Biology, who regularly teach BIOL 412.
j. Changes to Existing Minor – African & African-American Studies

PROPOSAL
Add additional course options to various tracks; remove AAAS 695 from African Languages track as it is not open to students completing the minor; Re-structure the 12 hour elective requirement in the African Studies track to facilitate programming for the minor in the DPR.

Minor in African and African-American Studies

African-American Studies Track

- AAAS 104 Introduction to African-American Studies
- AAAS 106 The Black Experience in the Americas
- AAAS 306 The Black Experience in the U.S. Since Emancipation
- 12 additional hours of African-American (U.S.).-related AAAS courses at the 300 level or above

African and African-American Studies Track

- AAAS 102 Arabic & Islamic Studies
- AAAS 103 Introduction to Africa
- AAAS 104 Introduction to African-American Studies
- AAAS 105 Introduction to African History
- AAAS 106 The Black Experience in the Americas
- 12 additional hours of AAAS courses at the 300 level or above

Advanced African Language Study Track

- 3 credit hours (1 course):
  - AAAS 102 Arabic and Islamic Studies, AAAS 103 Introduction to Africa or AAAS 105/HIST 104 Introduction to African History
- 4 courses in Arabic (ARAB 310 Advanced Arabic I, ARAB 320 Advanced Arabic II, ARAB 401 Readings in Arabic I, and ARAB 402 Readings in Arabic II) or
  - KiSwahili (KISW 310 Advanced KiSwahili I, KISW 320 Advanced KiSwahili II, KISW 401 Readings in KiSwahili I, KISW 402 Readings in KiSwahili II) or
  - Hausa (HAUS 310 Advanced Hausa I, HAUS 320 Advanced Hausa II, HAUS 401 Readings in Hausa I, HAUS 402 Readings in Hausa II) or
  - Wolof (WOLO 310 Advanced Wolof I, WOLO 320 Advanced Wolof II, WOLO 401 Readings in Wolof I, WOLO 402 Readings in Wolof II) or
- 2 advanced language courses (AAAS 504 or AAAS 505 Directed Language Study: _____) and a Language and Society course (LING 370/AAAS 370 Introduction to the Languages of Africa, LING 470/AAAS 470 Language and Society in Africa). Other languages may apply with consent of faculty.
- 3 credit hours (1 course) selected from
  - AAAS 550 Senior Seminar in: _____
  - AAAS 695 Honors Project in: _____
AAAS 690 Investigation and Conference
AAAS 496 Field Experience

Haitian Studies Track

- HAIT 110 Elementary Haitian I
- HAIT 120 Elementary Haitian II
- HAIT 230 Intermediate Haitian I
- HAIT 240 Intermediate Haitian II
- 12 additional hours of the language or related courses at the 300 level or above

African Studies Track

- 3 credit hours (1 course):
  - AAAS 102 Arabic and Islamic Studies, AAAS 103 Introduction to Africa or AAAS 105/HIST 104 Introduction to African History
- 12 credit hours (4 courses) of African-related courses selected from the following. The department strongly encourages you to select courses that concentrate on one of the areas described below in the information section.
  - AAAS 300 African Traditional Religion and Thought
  - ANTH 564 The Peoples of Africa
  - AAAS 545 Unveiling the Veil
  - WGSS 330/AAAS 340 Women in Contemporary African Literature
  - AAAS 415 Women and Islam
  - WGSS 560/AAAS 560 Race, Gender, and Post-Colonial Discourses
  - AAAS 320 African Studies in: Development of Islamic Tradition
  - AAAS 532/REL 532 Studies in Islam
  - AAAS 542/REL 535 The History of Islam in Africa
  - HIST 300/AAAS 305 Modern African History
  - HIST 598/AAAS 598 Sexuality and Gender in African History
  - HIST 599/AAAS 590 The Rise and Fall of Apartheid
  - HIST 600 West African History/AAAS 520 African Studies in: West African History
  - JOUR 500 Topics in Journalism: International Journalism
  - THR 226/DANC 230/AAAS 334 Introduction to African Dance Theatre
  - THR 326/AAAS 355 African Theatre and Drama
  - FMS 544/AAAS 555 African Film
  - ENGL 324 Contemporary Authors: _____/AAAS 320 African Studies in: the Novel in Africa
  - ENGL 326/AAAS 332 Introduction to African Literature
  - ENGL 479 The Literature of: _____/AAAS 433 Islamic Literature
  - ENGL 479 The Literature of: _____/AAAS 434 African Women Writers
  - ENGL 674 African Literature: _____
FREN 432/AAAS 432 Francophone African Literature
HA 376/AAAS 376 West African Art
HA 578/AAAS 578 Central African Art
ANTH 542 Biology of Human Nutrition
ANTH 543 Anthropology of Food and Nutrition
ANTH 650 Human Reproduction: Biology and Behavior
ANTH 762 Human Growth and Development
ANTH 461 Introduction to Medical Anthropology
ANTH 540 Demographic Anthropology
ANTH 783 Doing Ethnography
ANTH 684 Anthropology and the Health Sciences
ECON 587 Economic Development of Africa
GEOG 553/AAAS 553 Geography of African Development
POL S 665/AAAS 600 Politics in Africa
IBUS 301 Business, Culture, and Society: Africa
POL S 667 Islam and Politics
HIST 599/AAAS 590 The Rise and Fall of Apartheid
AAAS 680 Introduction to Modern Africa
ANTH 545/AAAS 554 Contemporary Health Issues in Africa
GEOG 350/AAAS 350 Physical Geography of Africa
GEOG 351/AAAS 351 Africa’s Human Geographies
GEOG 553/ AAAS 553 Geography of African Development
ANTH 564 The Peoples of Africa
ANTH 549 Human Paleontology: Fossil Apes to Australopithecus
ANTH 501 Topics in Sociocultural Anthropology: _____/AAAS 520 African Studies in: Kongo Trans-Atlantic
AAAS 560/WGSS 560 Race, Gender, and Post-Colonial Discourses
GEOG 550 Environmental Issues in Africa/AAAS 551 Environmental Issues in Africa/EVRN 420 Topics in Environmental Studies: Environmental Issues in Africa
☐ 3 credit hours (1 course) selected from
 AAAS 550 Senior Seminar in: _____
 AAAS 695 Honors Project in: _____
 AAAS 690 Investigation and Conference
 AAAS 496 Field Experience

[INFORMATION FOR CHOOSING SPECIFIC CONCENTRATIONS TO FULFILL THE 12 HOUR REQUIREMENT:]

◆ African Societies and Civilizations

The following courses allow you to concentrate your study on African Societies and Civilizations. These are not additional requirements, but simply refer to the concentration lists in the twelve credit hours required.
AAAS 300 African Traditional Religion and Thought
ANTH 564 The Peoples of Africa
AAAS 545 Unveiling the Veil
WGSS 330/AAAS 340 Women in Contemporary African Literature
AAAS 415 Women and Islam
WGSS 560/AAAS 560 Race, Gender, and Post-Colonial Discourses
AAAS 320 African Studies in: Development of Islamic Tradition
AAAS 532/REL 532 Studies in Islam
AAAS 542/REL 535 The History of Islam in Africa
HIST 300/AAAS 305 Modern African History
HIST 598/AAAS 598 Sexuality and Gender in African History
HIST 599/AAAS 590 The Rise and Fall of Apartheid
HIST 600 West African History/AAAS 520 African Studies in: West African History
JOUR 500 Topics in Journalism: International Journalism

◆ African Arts and Literature

The following courses allow you to concentrate your study on African Arts and Literature. These are not additional requirements, but simply refer to the concentration lists in the twelve credit hours required.

THR 226/DANC 230/AAAS 334 Introduction to African Dance Theatre
THR 326/AAAS 355 African Theatre and Drama
EMS 544/AAAS 555 African Film
ENGL 324 Contemporary Authors: _____/AAAS 320 African Studies in: the Novel in Africa
ENGL 326/AAAS 332 Introduction to African Literature
ENGL 479 The Literature of: _____/AAAS 433 Islamic Literature
ENGL 479 The Literature of: _____/AAAS 434 African Women Writers
ENGL 674 African Literature; _____
FREN 432/AAAS 432 Francophone African Literature
HA 376/AAAS 376 West African Art
HA 578/AAAS 578 Central African Art

◆ Political Economy of Health and Development in Africa

The following courses allow you to concentrate your study on Political Economy of Health and Development in Africa. These are not additional requirements, but simply refer to the concentration lists in the twelve credit hours required.

ANTH 542 Biology of Human Nutrition
ANTH 543 Anthropology of Food and Nutrition
ANTH 650 Human Reproduction: Biology and Behavior
ANTH 762 Human Growth and Development
ANTH 461 Introduction to Medical Anthropology
ANTH 540 Demographic Anthropology
ANTH 783 Doing Ethnography
ANTH 684 Anthropology and the Health Sciences
ECON 587 Economic Development of Africa
GEOG 553/AAAS 553 Geography of African Development
POL 665/AAAS 600 Politics in Africa
IBUS 301 Business, Culture, and Society: Africa
POL 667 Islam and Politics
HIST 599/AAAS 590 The Rise and Fall of Apartheid
AAAS 680 Introduction to Modern Africa
ANTH 545/AAAS 554 Contemporary Health Issues in Africa

People and Space in Africa

The following courses allow you to concentrate your study on People and Space in Africa. These are not additional requirements, but simply refer to the concentration lists in the twelve credit hours required.

GEOG 350/AAAS 350 Physical Geography of Africa
GEOG 351/AAAS 351 Africa’s Human Geographies
GEOG 553/AAAS 553 Geography of African Development
ANTH 564 The Peoples of Africa
ANTH 549 Human Paleontology: Fossil Apes to Australopithecus
ANTH 501 Topics in Sociocultural Anthropology: _____/AAAS 520 African Studies in: Kongo
Trans-Atlantic
HIST 599/AAAS 590 The Rise and Fall of Apartheid
AAAS 560/WGSS 560 Race, Gender, and Post-Colonial Discourses
GEOG 550 Environmental Issues in Africa/AAAS 551 Environmental Issues in Africa/EVRN 420 Topics in Environmental Studies: Environmental Issues in Africa

Minor Hours & Minor GPA

While completing all required courses, minors must also meet each of the following hour and GPA minimum standards:

- **Minor Hours**
  Satisfied by 18 hours of minor courses.

- **Minor Hours in Residence**
  Satisfied by a minimum of 9 hours of KU resident credit in the minor.

- **Minor Junior/Senior (300+) Hours**
  Satisfied by a minimum of 15 hours from junior/senior courses (300+) in the minor.

- **Minor Graduation GPA**
  Satisfied by a minimum of a 2.0 KU GPA in all departmental courses in the minor. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator.

**JUSTIFICATION:**
Due to limitations in Enroll and Pay our minor information was not programmable on the DPR. Include more options for other introduction courses that we offer to count toward the intro requirement.