Meeting of the College Academic Council  
College of Liberal Arts & Sciences -- 210 Strong Hall  
December 11, 2012 - 4:00 p.m.  

AGENDA

I. APPROVAL OF THE NOVEMBER 13, 2012 CAC MINUTES

II. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)  
(Items approved in the November 8 and November 29 meetings of the CGS)  
Submitted by Kristine Latta, presented by Eve Levin, 2012-2013 CGS Chair

   A. Curricular Changes for Approval  
      COURSE CHANGES: EVRN 702, FMS 714, LING 747, LING 899, VAE 890

   B. Program Changes for Approval
      1. New Program: College of Liberal Arts and Sciences, PSM-EA (see Addendum #1)
      2. Program Change: Linguistics, MA
      3. Program Change: Speech Language Hearing, PhD

III. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES AND ADVISING (CUSA)  
(Items approved in the November 13 and November 27 meetings of the CUSA)  
Submitted by Lanis Atwood, presented by Bob Hurst, 2012-2013 CUSA Chair

   A. Curricular Changes for Approval
      NEW COURSES: AAAS 536, ART 310, BIOL 225, ENGL 494, ENGL 497, ENGL 522, EVRN 140, EVRN 141-144, EVRN 142, EVRN 143-145, FARS 310, FARS 320, GEOG 140, GEOG 141-144, GEOG 142, GEOG 143-145, GERM 315, GERM 316, GERM 375, GERM 401, GERM 402, GERM 335, GERM 475, GERM 501, GERM 550, GERM 560, GERM 575, GERM 580, GERM 598, GERM 599, GIST 684, GIST 685, HIST 141-144, HIST 142, HIST 143-145, HIST 367, HIST 436, HIST 480, HWC 436, KICH 110, KICH 114, KICH 230, KICH 234, KQKL 110, KQKL 114, KQKL 230, KQKL 234, PCS 121, PHIL 557, REL 365, PHSX 216, PHSX 236SOC 590, SPLH 497, TAJ 310, TAJ 320, *XXXX 177

      COURSE CHANGES: AAAS 536, ART 540, ART 695, ART 696, ASTR 391, ASTR 591, ASTR 596, ATMO 640, ATMO 680, BIOL 150, BIOL 151, BIOL 408, BIOL 416, BIOL 426, BIOL 594, BIOL 662, CHEM 295-180, CHEM 695, ENGL 496, ENGL 506, ENGL 507, ENGL 521, ENGL 525, ENGL 536, ENGL 560, ENGL 567, ENGL 570, ENGL 571, ENGL 572, ENGL 573, ENGL 574, ENGL 575, ENGL 578, ENGL 579, ENGL 580, ENGL 587, ENGL 592, ENGL 610, ENGL 620, ENGL 633, ENGL 640, ENGL 650, ENGL 655, ENGL 690, EURS 302, GEOL 562, GEOL 572, GEOL 573, GEOL 577, GERM 102, GERM 104, GERM 105, GERM 106, GERM 107, GERM 108, GERM 109, GERM 110, GERM 118, GERM 120, GERM 124, GERM 125, GERM 132, GERM 136, GERM 148, GERM 212-201, GERM 213, GERM 216-202, GERM 217, GERM 218-203, GERM 219, GERM 220, GERM 222, GERM 240, GERM 244, GERM 256, GERM 320, GERM 324, GERM 328, GERM 332, GERM 344-301, GERM 348-302, GERM 350, GERM 351, GERM 352, GERM 356, GERM 372, GERM 408, GERM 416, GERM 420, GERM 424, GERM 425, GERM 444, GERM 504, GERM 568-481, GERM 572-482, GERM 576-483, GERM 588-411, GERM 590-
412, GERM 604, GERM 608-480, GERM 653-579, HA 536, HIST 327, HIST 328, HIST 565, HIST 568, HIST 570, HIST 625, HIST 626, HIST 670, HWC 424, HWC 302, HWC 494, HWC 570, HWC 575, LING 420, LING 322-421, LING 447, PCS 120, PHSX 114, PHSX 115, PHSX 212, PHSX 213, PHSX 214, PHSX 313, PHSX 521, PHSX 528, PHSX 531, PHSX 536, PHSX 623, PHSX 641, PHSX 671, REL 311, SOC 490, SOC 624-424, SPLH 498, SPLH 499, SPLH 660, UKRA 512, UKRA 516, WGSS 570, WGSS 575

B. Degree Requirements for Approval

a) Changes to Existing Major in Chemistry - BA and BS
b) Changes to Existing Major in English
c) Changes to Existing Major in Humanities
d) New Minor in Humanities
e) Changes to Existing Major in Environmental Studies
f) Changes to Existing Minor in Environmental Studies
g) Changes to Existing Major in Linguistics
h) Change to Existing Minor in Theatre
i) Changes to Existing Major in Mathematics – BS
j) Changes to Existing Major in Sociology
k) Changes to Existing Minor in Sociology
l) Changes to Existing Major and Minor in Global and International Studies
m) Germanic Languages & Literatures – change to existing major
n) Germanic Languages & Literatures – change to existing minor
o) Human Sexuality – New Major – housed in the Women, Gender and Sexuality Studies department
p) Visual Art BFA – Change to Existing Major
q) Film and Media Studies – Change to Existing Major Admission Requirements
r) BA and BS Biochemistry – Change to Existing Major
s) Biology – Change to Major Admission Requirements
t) The Following are all related to the PHSX 211/216 and PHSX 212/236 changes:
   • BA and BS Physics – Change to Existing Major
   • Physics – Change to Existing Major
   • BA and BS Astronomy – Change to Existing Major
   • Astronomy – Change to Existing Major
   • BS Atmospheric Science – Change to Existing Major
   • Atmospheric Science – Change to Existing Major
   • BA and BS Biochemistry – Change to Existing Major
   • BA and BS Biology – Change to Existing Major
   • BA Human Biology – Change to Existing Major
   • BA and BS Microbiology – Change to Existing Major
   • BS Molecular Biosciences – Change to Existing Major
   • BA and BS Chemistry – Change to Existing Major
   • Chemistry – Change to Existing Major
   • BS Geography – Change to Existing Major
   • BA and BS Geology – Change to Existing Major

C. Requirements for BA degree – see Addendums #2, #3 and #4

a. Quantitative Reasoning Requirement (from October 30, 2012 CUSA meeting)
b. Laboratory Experience Requirement
c. Foreign Language Requirement

Next regularly scheduled meeting of the CAC will be Tuesday, February 12, at 4:00 PM in 210 Strong Hall.
I. APPROVAL OF THE OCTOBER 16, 2012 CAC MINUTES

College of Liberal Arts & Sciences
College Academic Council
Minutes – November 13, 2012

Committee members in attendance: Johannes Feddema, Michelle Heffner Hayes, Anna Neill, Jorge Pérez

Committee members not in attendance: Norman Akers, Jaqueline Brinton, Heather Desaire, David Fowle, Jane Gibson, Steve Ilardi, Ebenezer Obadare, Cody Powers, Alex Ripberger, John Tibbetts

Others in attendance: Danny Anderson, Ann Cudd, Larry Fillian, Bob Goldstein, Marsha Haufler, Bob Hurst, Liz Kowalchuk, Kristine Latta, Eve Levin, Cindy Lynn, Jim Mielke, Anne Sawyer

The meeting was called to order by Danny Anderson at 4:00 PM.

Minutes
A motion was made and seconded to approve the October 16, 2012 minutes of the College Academic Council as written. The motion was approved unanimously.

Report of the Committee on Graduate Studies (CGS)
(Eve Levin, 2012-13 CGS Chair, reporting)

● The motion (CGS report by Eve Levin) was seconded, and the CAC voted unanimously to approve the following curricular changes:

1. NEW COURSES: LING 852, REL 727, REL 737, REL 747, REL 757, REL 767, SPLH 900, SPLH 976

2. CHANGES: SPLH 964, SPLH 974

3. DELETIONS: REL 780, REL 781

● Individual motions (CGS report by Eve Levin) were seconded and the CAC voted unanimously to approve the following program changes:

1. English, MFA
2. Religious Studies, MA
3. Women, Gender & Sexuality Studies, PhD

Report of the Committee on Undergraduate Studies & Advising (CUSA)
(Robert Hurst, 2012-2013 CUSA Chair, reporting)

The motion (CUSA report by Robert Hurst) was seconded and the CAC voted unanimously to approve the following curricular changes:

1. NEW COURSES: GEOG 574, HNRS 320

2. CHANGES: HNRS 200/HNRS 300

At 5:00 PM, a motion was made, seconded and approved unanimously to adjourn the meeting.

Next College Academic Council Meeting: Tuesday, December 11, 2012, at 4:00 PM (210 Strong Hall)

Minutes recorded and transcribed by Anne Sawyer (Secretary to the College Assembly)
II. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)

A. Summary of Curricular Changes for Approval

1. Course changes:

   Environmental Studies

   EVRN 702

   (OLD) EVRN 702 Environmental Studies - Energy, Ecology & Community in KS (3) This interdisciplinary graduate seminar examines the role of climate in shaping energy, ecology, and community in Kansas from natural and physical science, social science, and/or humanities perspectives. The class will combine lectures, group projects, and field research to understand the ways that climate change and energy production are reshaping the human and natural systems in Kansas and the Great Plains. The course is team-taught by faculty from the natural and physical science, social science, humanities and professional schools, and will include faculty guest speakers from KU and off-campus. Students will identify and design a service learning project that combines issues of climate, energy, and community, and will use a variety of interdisciplinary tools including modeling, remote sensing, and scaling to complete their project and present their findings to local stakeholders.
   Prerequisite: Consent of instructor. LEC.
   Grading: A-F, W and I

   (NEW) EVRN 702 Environmental Studies - Energy, Ecology & Community in KS (3) This interdisciplinary graduate seminar examines the role of climate in shaping energy, ecology, and community in Kansas from natural and physical science, social science, and/or humanities perspectives. The class will combine lectures, group projects, and field research to understand the ways that climate change and energy production are reshaping the human and natural systems in Kansas and the Great Plains. The course is team-taught by faculty from the natural and physical science, social science, humanities and professional schools, and will include faculty guest speakers from KU and off-campus. LEC.
   Grading: A-F, W and I

   This new course will be first offered Spring 2013 and then every semester thereafter.

   JUSTIFICATION:
   This course is a degree requirement for the graduate certificate. The sentence we want removed from the course description does not apply to how the course is always planned. It will have no impact on the current students. We are changing the title to more accurately reflect the course description.

   Film and Media Studies

   FMS 714 (Cross listed with: HA 584)

   (OLD) FMS 714 Kansas Art and Popular Culture (3) An overview of the art and cultural history of Kansas (and Kansas City) from territorial days to the present. Emphasis is placed on key issues, figures and events. A general familiarity with American history is recommended. In addition to the lecture sessions
taught in tandem with FMS 414, additional research component, lecture presentation, and class meeting are also required. LEC.

Grading: A-F, W and I

(New) Title Change:
FMS 714 Kansas Art, History and Popular Culture (3) An overview of the art and cultural history of Kansas (and Kansas City) from territorial days to the present. Emphasis is placed on key issues, figures and events. A general familiarity with American history is recommended. In addition to the lecture sessions taught in tandem with FMS 414, additional research component, lecture presentation, and class meeting are also required. None. LEC.

Grading: A-F, W and I

The change(s) to this course will first take effect Fall 2013 and the course will be offered every other Fall thereafter.

JUSTIFICATION:
This request is being submitted in support of the Department of Art History's request to change the course title.

LINGUISTICS

LING 747

(OLD)
LING 747 North American Indian Languages (3) Introduction to the nature and distribution of North American Indian languages. An introductory course in linguistics. LEC.

Grading: A-F, W and I

(NEW)
LING 747 North American Indian Languages (3) This course introduces students to the indigenous languages of North America. Students will critically examine the structures and status of these languages, which have greatly expanded our knowledge of human language and linguistic theory. Topics include the history and future of North American languages and indigenous speech communities, the history of the field of Americanist linguistics, as well as important linguistic questions raised by phenomena from American languages in phonology, morphology, syntax, semantics, and historical linguistics. Prerequisite: An introductory course in linguistics.

Grading: A-F, W and I

This new course will be first offered Fall 2013 and the course will be offered every other Fall semester thereafter.

JUSTIFICATION:
The current course description is minimal and does not provide students with an idea of the contents of the course. Now that we have a new faculty member who will teach the course on a regular basis, it is time to update the description.

LING 899

(OLD)
LING 899 Master's thesis (1-) There is no course description for this course. THE.

Grading: S/U, W and I
LING 899 Master's Research Project (1-3) A course for students working on their M.A. Research Project. Normally to be taken during the semester in which the student is submitting the M.A. Research Project. Students must enroll for at least one credit hour. Up to three credits will count toward the minimum number of credits required for the M.A. degree in linguistics. RSH.

Grading: S/U, W and I

The changes to this course will first take effect Fall 2013 and the course will be offered every semester thereafter.

JUSTIFICATION:
This course is a degree requirement in the following way: Students take this course if they are taking the M.A. thesis option (instead of the M.A. written exam).

This course impacts students in the following way: This change would go in effect in the Fall of 2013. Since we propose to replace the current M.A. thesis with an M.A. Research Project (see our submission of that program change for our rationale), the slightly reduced scope of this project should allow students to finish their M.A. degree in a timely manner.

We are proposing to replace our current M.A. thesis with an M.A. Research Project requirement (see our submission of that program change for our rationale). Students will then have to enroll in Master's Research Project hours rather than Master's Thesis hours.

Visual Arts Education

VAE 890

VAE 890: Preparation for the M.A. Examination (1) An independent reading course in preparation for the M.A. Examination. The grade will be an S or U, as determined by the performance on the examination. Prerequisite: Permission of the instructor. LEC.

Grading: S/U, W and I

This new course will be first offered Spring 2013, and then every semester thereafter.

JUSTIFICATION:
This course is a degree requirement in the following way: Students who elect to take the Examination Option of the Visual Art Education M.A. degree, enroll in a final one-credit hour class during which time they study for the Examination. Study preparation leads to a grade of either an S or U. The Examination is evaluated independently of the course.

The VAE faculty seek to clarify how the course is graded and decouple the preparation study from the Examination, which is evaluated separately.
B. Program Changes

1. **New Program: College of Liberal Arts and Sciences, PSM-EA**

   CLAS, PSM-EA

   See Addendum

2. **Program Change: Linguistics, MA**

   LING, MA

   **(OLD) Current Program Description:**

   M.A. Degree Requirements Prerequisites

   3 credit hours of linguistics (LING 700 or equivalent). Students who do not meet the prerequisite but have undergraduate majors in related fields (such as a foreign language, English, speech, anthropology, or psychology) may be accepted with the provision that they make up the deficiency as soon as possible.

   Degree Requirements

   The following are minimum requirements.

   Course Work

   33 credit hours of graduate work including

   - LING 794 Proseminar
   - LING 705 Phonetics I
   - LING 712 Phonology I
   - LING 725 Syntax I
   - LING 709 First Language Acquisition or LING 715 Linguistics and Second Language Acquisition
   - LING 735 Psycholinguistics or LING 738 Neurolinguistics
   - 1 of the following research methods courses:
     - LING 720 Research Methods in Linguistics
     - LING 740 Linguistic Data Processing
     - LING 741 Field Methods in Linguistic Description
     - LING 782 Research Methods in Child Language
   - 12 credit hours of electives to be determined by the student and the student’s adviser, excluding LING 998 Independent Study; LING 850 Empirical Research in Linguistics: Phonetics, Phonology, Psycholinguistics; LING 851 Empirical Research in Linguistics: Acquisition and Processing; and LING 852 Empirical Research in Linguistics: Syntax.

   M.A. students can complete the degree either by writing a thesis and passing a thesis oral defense (Thesis Option) or by passing a written comprehensive examination (Comprehensive Examination Option).

   **Thesis Option**

   A maximum of 3 hours of thesis credit (LING 899) may be applied toward the minimum of 33 hours for the degree. The thesis must be defended successfully in an oral examination.

   **Comprehensive Examination Option**

   The M.A. comprehensive examination option is only available to students seeking a terminal M.A. degree. A comprehensive written examination should be taken no later than the semester in which the student completes 33 hours of course work applicable to the M.A.

   **Plan of Study Year 1**

   - LING 794 Proseminar
   - LING 705 Phonetics I
   - LING 712 Phonology I
   - LING 725 Syntax I
   - LING 709 First Language Acquisition or LING 715 Linguistics and Second Language Acquisition
   - LING 735 Psycholinguistics or LING 738 Neurolinguistics

   A second-level advanced course

   **Year 2**
LING 720 Research Methods in Linguistics or LING 741 Field Methods in Linguistic Description
Elective courses in linguistics
LING 899 M.A. Thesis

(NEW) Proposed Program Description
M.A. Degree Requirements
Prerequisites
3 credit hours of linguistics (LING 700 or equivalent). Students who do not meet the prerequisite but have undergraduate majors in related fields (such as a foreign language, English, speech, anthropology, or psychology) may be accepted with the provision that they make up the deficiency as soon as possible.

Degree Requirements
The following are minimum requirements.
Course Work
33 credit hours of graduate work including
LING 794 Proseminar
LING 705 Phonetics I
LING 712 Phonology I
LING 725 Syntax I
LING 709 First Language Acquisition or LING 715 Linguistics and Second Language Acquisition
LING 735 Psycholinguistics or LING 738 Neurolinguistics
1 of the following research methods courses:
LING 720 Research Methods in Linguistics
LING 740 Linguistic Data Processing
LING 741 Field Methods in Linguistic Description
LING 782 Research Methods in Child Language
12 credit hours of electives to be determined by the student and the student’s adviser, excluding LING 998 Independent Study; LING 850 Topics in Empirical Research in Linguistics; LING 851 Research in Language Acquisition and Processing; and LING 852 Research in Field Linguistics.

M.A. students can complete the degree by one of the following options:
Research Project Option: student will conduct and write a research project and pass the research project oral defense. A maximum of 3 hours of M.A. research project credit (LING 899) may be applied toward the minimum of 33 hours for the degree. The research project must be defended successfully in an oral examination.
Comprehensive Examination Option:
The M.A. comprehensive examination option is only available to students seeking a terminal M.A. degree. A comprehensive written examination should be taken no later than the semester in which the student completes 33 hours of course work applicable to the M.A.

Plan of Study Year 1
LING 794 Proseminar
LING 705 Phonetics I
LING 712 Phonology I
LING 725 Syntax I
LING 709 First Language Acquisition or LING 715 Linguistics and Second Language Acquisition
LING 735 Psycholinguistics or LING 738 Neurolinguistics
A second-level advanced course
Year 2
LING 720 Research Methods in Linguistics or LING 741 Field Methods in Linguistic Description
Elective courses in linguistics
LING 899 M.A. Research Project

The changes to this program will first take effect Fall 2013.

JUSTIFICATION:
This is a program change to our M.A. program. Currently, students pursuing a Master’s degree have a choice between a comprehensive written exam (which leads to a terminal M.A.
degree) and an M.A. thesis. The proposed change consists of replacing the M.A. thesis with an M.A. research project.

The rationale for this change is the following: any M.A. thesis by definition needs to be submitted to Graduate Studies, is uploaded to KU ScholarWorks and is therefore publicly available. However, some of our research projects which are sufficient for an M.A. thesis should not be publicly available because they are incomplete or inconclusive in their present form. For example, in research on second language acquisition, it is customary to compare performance of a group of second-language learners to that of native (control) speakers. While a project with only data from the control group makes a fine M.A. thesis, faculty feel that it should not be made available until data from the experimental group (second-language learners) have been collected as well. This would mean the addition of an extra component to the thesis which would delay the student’s time to degree.

Replacing the M.A. thesis with a research project removes the requirement for public availability. This means that a project of adequate scope (to stick with the example, a project based on data from the control group) will be sufficient for the M.A. degree. It will ensure that the student stays on track in terms of time-to-degree. Addition of the data from the experimental group will then make a good major qualifying paper in case the student continues toward the Ph.D. degree. One of the major goals of the M.A. thesis is to allow faculty to determine if the student has the potential to continue in the Ph.D. program. The proposed M.A. research project will accomplish the same goal.

3. Program Change: Speech Language Hearing, PhD

SPLH, PhD

(OLD) Current Program Description:
Ph.D. Degree Requirements: Speech-Language Pathology or Audiology
The Ph.D. programs in speech-language pathology and in audiology offer post-baccalaureate study of normal and disordered aspects of communication. Application materials must include verbal, quantitative, and analytical Graduate Record Examination scores. Students may be admitted with bachelor’s degrees, although most have some form of master’s degree. Incoming students who do not have master’s degrees, or the equivalent, and students who have nonthesis master’s degrees must initiate a thesis-equivalent research project, under the direction of a three-member committee, during the first year of enrollment. This project must be completed before the comprehensive oral examination.

Program Guide Beyond the Baccalaureate Level
Upon admission, the student and his or her adviser choose a doctoral advisory committee. This committee begins its function as soon as possible and approves the student’s program by no later than the end of the second semester of residence. The 3-person committee must include the student’s adviser and at least one additional member from the intercampus executive committee. The committee works with the student in planning a program consonant with the career goals of the student and the resources of the department. The committee is responsible for guiding the student’s progress through the selected program of study.

To meet general requirements, the Ph.D. aspirant must pass an oral comprehensive examination. Before being admitted to this examination, the student must have satisfied

1. The majority of course requirements (defined by the advisory committee) in the student’s emphasis area (a minimum of 40 graduate credit hours in the major interest, which may include hours accumulated toward a master’s degree);
2. 15 graduate hours in research;
3. A minimum of 12 graduate hours in a correlative area outside the student’s major emphasis; and
4. Satisfactory performance on a written preliminary examination encompassing the student’s emphasis area and research skills.

Students also must complete the FLORS or research skills and responsible scholarship requirement as outlined in the Ph.D. Handbook of the Intercampus Program.

Note: Responsible scholarship requirements were approved after this catalog was finalized. Contact your department or program for more information about this requirement for doctoral students.

After the student has passed the comprehensive examination, she or he must complete a research project approved by a committee of three faculty members and write a dissertation based on that research. The dissertation is expected to be a scholarly work that reflects the student’s ability to conduct independent, original research. A minimum of 10 hours of dissertation credit is required. Completion of the dissertation is followed by the final oral examination and defense of the dissertation. Additional information about the department and about faculty research interests is contained in a departmental brochure available upon request.

(NEW) Proposed Program Description:

Ph.D. Degree Requirements: Speech-Language Pathology or Audiology
The Ph.D. programs in speech-language pathology and in audiology offer post-baccalaureate study of normal and disordered aspects of communication. Application materials must include verbal, quantitative, and analytical Graduate Record Examination scores. Students may be admitted with bachelor’s degrees, a master’s degree, or a clinical doctoral degree. Incoming students who have not completed a substantive graduate research project (e.g., a master’s thesis; AuD research project) must initiate a thesis-equivalent research project, under the direction of a three-member committee, during the first year of enrollment. This project must be completed before the comprehensive oral examination.

General Program Guide Beyond the Baccalaureate Level
Upon admission, the student and his or her adviser choose a doctoral advisory committee. This committee begins its function as soon as possible and approves the student’s program by no later than the end of the second semester of residence. The 3-person committee must include the student’s adviser and at least one additional member from the intercampus executive committee. The committee works with the student in planning a program consonant with the career goals of the student and the resources of the department. The committee is responsible for guiding the student’s progress through the selected program of study.

To meet general requirements, the Ph.D. aspirant must pass an oral comprehensive examination. Before being admitted to this examination, the student must have satisfied the following minimum requirements:

1. A minimum of 24 graduate credit hours in the major interest, including enrollments in grant writing, directed teaching, and departmental colloquium with the remaining credits being approved by the doctoral advisory committee;
2. 15 graduate hours in research skills, including at least one course in responsible scholarship (see research skills and responsible scholarship requirement as outlined in the Ph.D. Handbook of the Intercampus Program);
3. A minimum of 12 graduate hours in a correlative area outside the student’s major emphasis; and
4. Satisfactory performance on annual reviews by the doctoral advisory committee
5. Satisfactory performance on a written preliminary examination encompassing the student’s emphasis area and research skills.

After the student has passed the oral comprehensive examination, she or he must complete a research project approved by a committee of three faculty members and write a dissertation based on that research. The dissertation is expected to be a scholarly work that reflects the student’s ability to
Program Notes for Different Entry Paths

Students entering with an undergraduate degree will complete requirements for a masters or clinical doctoral degree in addition to the PhD requirements outlined above. Work toward the masters or clinical doctorate degrees can be completed in conjunction with that for the Ph.D. Students desiring clinical training and certification will complete the MA Speech-Language Pathology and PhD degrees or the AuD/PhD combined degree. Students who do not desire clinical certification in either Speech-Language Pathology or Audiology will complete additional coursework and research experiences in conjunction with the PhD degree.

Students entering with a graduate degree will complete the PhD requirements outlined above with some adjustments based on relevant skills acquired during prior graduate study.

Refer to [hyperlink to departmental webpage] for a chart of specific requirements for each pathway to the PhD in Speech-Language Pathology or Audiology.

III. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES & ADVISING (CUSA)

A. Curricular Changes for Approval

AFRICAN & AFRICAN-AMERICAN STUDIES

CHANGE: NEW CROSS-LISTED COURSE
AAAS 536 ISLAMIC ART AND ARCHITECTURE IN AFRICA  3  N
Study of Islamic art and architecture in various cultural and geographical settings, from the first mosques of North African and the Swahili coast to contemporary Islamized masquerades in West Africa. We consider art objects and architectural sites in terms of religious practice, trade and commerce, ritual and political power, and contemporary expression. Prerequisite: AAAS 102, AAAS 103, HA 100, or HA 150; or permission of instructor. LEC (Same as HA 536)

ASTRONOMY

CHANGE: COURSE DESCRIPTION
ASTR 391 PHYSICAL ASTRONOMY  3  N
(OLD) An honors, calculus-based introduction to astronomy and astrophysics, required for astronomy majors. Components of the Universe - from planetary systems, stellar systems, large scale structure and cosmology - are examined to illuminate the physics principles which govern their evolution. Not open to students with prior credit in ASTR 191 or ASTR 291. Prerequisite: MATH 121, and either permission of instructor, or participation in the University Honors Program.

ASTR 391 PHYSICAL ASTRONOMY  3  N
(NEW) An honors, calculus-based introduction to astronomy and astrophysics, required for astronomy majors. Components of the Universe - from planetary systems, stellar systems,
large scale structure and cosmology - are examined to illuminate the physics principles which govern their evolution. Prerequisite: MATH 121, and either permission of instructor, or participation in the University Honors Program.

CHANGE:

PREREQUISITE

ASTR 591

(OLD)

STELLAR ASTRONOMY 3 N

Fundamentals of stellar astronomy including astronomical optics and techniques, coordinate and time systems, stellar spectroscopy, properties of normal, binary and variable stars. Prerequisite: PHSX 212. An introductory astronomy course is desirable.

LEC

ASTR 591

(NEW)

STELLAR ASTRONOMY 3 N

Fundamentals of stellar astronomy including astronomical optics and techniques, coordinate and time systems, stellar spectroscopy, properties of normal, binary and variable stars. Prerequisite: PHSX 212 and PHSX 236. An introductory astronomy course is desirable. LEC

CHANGE:

COURSE DESCRIPTION AND CREDIT

ASTR 596

(OLD)

OBSERVATIONAL ASTROPHYSICS 1 N

Students acquire practical experience with astronomical equipment and data reduction techniques used in research and educational contexts. Prerequisite or corequisite: ASTR 591.

ASTR 596

(NEW)

OBSERVATIONAL ASTROPHYSICS 2 N

Students acquire practical experience with astronomical equipment and data reduction techniques used in research and educational contexts. ASTR 596, combined with an independent research experience, provides a pathway for students to demonstrate creativity and integration of background knowledge. Prerequisite or corequisite: ASTR 591.

ATMOSPHERIC SCIENCE

CHANGE:

PREREQUISITE

ATMO 640

(OLD)

DYNAMIC METEOROLOGY 3 N

This course introduces the student to the fundamentals of fluid dynamics necessary for understanding large scale atmospheric motions. Fundamental physical laws of conservation of mass, momentum and energy are examined and applied to atmospheric flows. Rotation in the atmosphere is examined quantitatively in terms of both circulation and vorticity. Prerequisite: MATH 223 and PHSX 212. This course introduces the student to the fundamentals of fluid dynamics necessary for understanding large scale atmospheric motions. Fundamental physical laws of conservation of mass, momentum and energy are examined and applied to atmospheric flows. Rotation in the atmosphere is examined quantitatively in terms of both circulation and vorticity. Prerequisite: MATH 223 and PHSX 212.

ATMO 640

(NEW)

DYNAMIC METEOROLOGY 3 N

This course introduces the student to the fundamentals of fluid dynamics necessary for understanding large scale atmospheric motions. Fundamental physical laws of conservation of mass, momentum and energy are examined and applied to atmospheric flows. Rotation in the atmosphere is examined quantitatively in terms of both circulation and vorticity. Prerequisite: MATH 223 and PHSX 212 or PHSX 236.

CHANGE:

PREREQUISITE

ATMO 680

(OLD)

PHYSICAL METEOROLOGY 3 N

This course is designed to enhance the student's understanding of atmospheric processes through the study of these processes at molecular through micro scales. Topics include
the properties and behavior of gases; transfer processes, phase change, solar and earth radiation; cloud drop, ice crystal and precipitation formation; atmospheric electricity; stratospheric chemistry. Prerequisite: MATH 223, PHSX 212.

ATMO 680                      PHYSICAL METEOROLOGY  3  N
(NEW)                           This course is designed to enhance the student’s understanding of atmospheric processes through the study of these processes at molecular through micro scales. Topics include the properties and behavior of gases; transfer processes, phase change, solar and earth radiation; cloud drop, ice crystal and precipitation formation; atmospheric electricity; stratospheric chemistry. Prerequisite: MATH 223, and PHSX 214, or PHSX 212 and 236.

BIOLOGY

CHANGE: PREREQUISITE
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, 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 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 130/190, CHEM 150, or CHEM 170, or consent of instructor. LEC

CHANGE: PREREQUISITE
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: Concurrent or prior enrollment in CHEM 130 and membership in the University Honors Program, 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 130/190, CHEM 150, or CHEM 170, or consent of instructor. LEC

CHANGE: NEW COURSE
BIOL 225                      EVOLUTION AND THE HISTORY OF LIFE  3  N
This introductory course for non-majors focuses on the significance of the history of life and the fossil record for our understanding of evolution. Key events in the history of life are considered, including the origins of life, the eukaryotic cell, and humans, and also various mass extinctions. The focus is on general scientific and evolutionary principles.
and mechanisms that can be extracted from the study of the fossil record. It also uses the lessons of the fossil record to consider the prospects for our own species.

CHANGE: PREREQUISITE
BIOL 408 PHYSIOLOGY OF ORGANISMS 3 N
(OLD)
A comprehensive and integrative approach to the study of organisms with an emphasis on physiological, ecological, structural, and behavioral adaptations to differing environments. Prerequisite: BIOL 152, or BIOL 153, and CHEM 130, or consent of the instructor. LEC

CHANGE: PREREQUISITE
BIOL 408 PHYSIOLOGY OF ORGANISMS 3 N
(NEW)
A comprehensive and integrative approach to the study of organisms with an emphasis on physiological, ecological, structural, and behavioral adaptations to differing environments. Prerequisite: BIOL 152/153; and CHEM 130/190 or CHEM 170; or consent of the instructor. LEC

CHANGE: PREREQUISITE
BIOL 416 CELL STRUCTURE AND FUNCTION 3 N
(OLD)
Lecture survey of molecular cell biology with emphasis on experimental approaches to understanding cell function; topics include biological membranes and transmembrane transport, vesicular trafficking (secretion and endocytosis), cell signaling, cell motility and the cytoskeleton, and the regulation of the cell division cycle. Prerequisite: BIOL 150, BIOL 350, CHEM 130 and CHEM 135, or consent of the instructor. LEC

CHANGE: PREREQUISITE
BIOL 416 CELL STRUCTURE AND FUNCTION 3 N
(NEW)
Lecture survey of molecular cell biology with emphasis on experimental approaches to understanding cell function; topics include biological membranes and transmembrane transport, vesicular trafficking (secretion and endocytosis), cell signaling, cell motility and the cytoskeleton, and the regulation of the cell division cycle. Prerequisite: BIOL 150/151; BIOL 350/360; CHEM 130/190 or CHEM 170; and CHEM 135/195 or CHEM 175, or consent of the instructor. LEC

CHANGE: PREREQUISITE
BIOL 426 LABORATORY IN CELL BIOLOGY 3 N
(OLD)
Laboratory exercises will examine the function, organization, and composition of eukaryotic cells. Prerequisite: BIOL 150 and CHEM 130, concurrent or prior enrollment in BIOL 416, or consent of the instructor. BIOL 350 is highly recommended. LAB

CHANGE: PREREQUISITE
BIOL 426 LABORATORY IN CELL BIOLOGY 3 N
(NEW)
Laboratory exercises will examine the function, organization, and composition of eukaryotic cells. Prerequisite: BIOL 150/151; CHEM 130/190 or CHEM 170; and concurrent or prior enrollment in BIOL 416/536; or consent of the instructor. BIOL 350/360 is highly recommended. LAB

CHANGE: PREREQUISITE
BIOL 594 FOREST ECOSYSTEMS 3 N
(OLD)
Students learn basic concepts of forest productivity, forest water relations, forest hydrology, nutrient cycling, through soils and vegetation, nutrient uptake, carbon cycling, decomposition, linkages to aquatic ecosystems, and agents of disturbance to these cycles. The class spends a significant part of the semester exploring forest soil profiles and the challenges they present to different forest ecosystems. We discuss the function of forested ecosystems in a global context and identify and understand smaller-scale processes that drive forest function. Prerequisite: CHEM 135 and BIOL 414. LEC

BIOL 594 FOREST ECOSYSTEMS 3 N
Students learn basic concepts of forest productivity, forest water relations, forest hydrology, nutrient cycling, through soils and vegetation, nutrient uptake, carbon cycling, decomposition, linkages to aquatic ecosystems, and agents of disturbance to these cycles. The class spends a significant part of the semester exploring forest soil profiles and the challenges they present to different forest ecosystems. We discuss the function of forested ecosystems in a global context and identify and understand smaller-scale processes that drive forest function. Prerequisite: CHEM 135/195 or CHEM 175, and BIOL 414. LEC

CHANGE:
BIOL 662
(OLD)
A field and laboratory course introducing biological, physical, and chemical characteristics of lentic (ponds and lakes) and lotic (creeks and rivers) habitats. Students learn sampling and monitoring techniques and how to classify aquatic biota at higher taxonomic levels. Co- or prerequisite: CHEM 184 and either BIOL 660 or 661. LAB

BIOL 662
(NEW)
A field and laboratory course introducing biological, physical, and chemical characteristics of lentic (ponds and lakes) and lotic (creeks and rivers) habitats. Students learn sampling and monitoring techniques and how to classify aquatic biota at higher taxonomic levels. Co- or prerequisite: CHEM 130/190 or CHEM 170, and BIOL 661. LAB

CHEMISTRY

CHANGE:
CHEM 180
(OLD)
Special topics for chemistry majors such as using the chemical literature, educational and professional perspectives, scientific ethics, and undergraduate research opportunities. It is recommended that students take this half-semester course in their freshman or sophomore year. Prerequisite: A declared major in chemistry or consent of instructor. LEC

CHEM 180
(NEW)
Special topics for chemistry majors such as using the chemical literature, educational and professional perspectives, scientific ethics, and undergraduate research opportunities. It is recommended that students take this half-semester course in their freshman or sophomore year. Prerequisite: A declared major in chemistry or consent of instructor. LEC

CHANGE:
CHEM 695
(OLD)
Special topics and presentations by students and faculty in areas of current interest such as recent advancements in chemistry, professional development, societal issues facing chemists, and reports of ongoing research. This is a half-semester capstone course. Recommended for seniors. Prerequisite: CHEM 180. LEC

CHEM 695
(NEW)
Special topics and presentations by students and faculty in areas of current interest such as recent advancements in chemistry, professional development, societal issues facing chemists, and reports of ongoing research. This is a half-semester capstone course. Recommended for seniors. Prerequisite: CHEM 180. LEC

ENGLISH

CHANGE:
ENGL 494
NEW COURSE
RESEARCH INTERNSHIP 1-3 H
Practical research experience in English studies gained by assisting a faculty member on a faculty research, editorial, pedagogical, or outreach project. Credit hours are graded by faculty on a satisfactory/unsatisfactory basis. May be used as a component of the Research Experience
Program (REP). Prerequisite: at least one 300-level English course, declaration of English major, and permission of instructor. FLD

CHANGE: COURSE DESCRIPTION PREREQUISITE
ENGL 496 INTERNSHIP 1-3 H
(OLD) Practical experience in the use of English skills in supervised academic or professional settings. Credit hours are graded on a satisfactory/unsatisfactory basis, according to the written recommendation provided by the supervisor to the director. Prerequisite: Completion of three junior-senior courses in English and consent of director. FLD

ENGL 496 INTERNSHIP 1-3 H
(NEW) Practical experience in the use of English skills in supervised academic or professional settings. Credit hours are graded on a satisfactory/unsatisfactory basis, according to the written evaluation provided by the supervisor to the director. Prerequisite: at least one 300-level English course, declaration of English major, and permission of Undergraduate Director. FLD

CHANGE: NEW COURSE
ENGL 497 SERVICE LEARNING INTERNSHIP 1-3 H
Practical experience in the use of English skills in a non-profit or advocacy context. Credit hours are graded by faculty on a satisfactory/unsatisfactory basis, based on the written evaluation of the student provided by the on-site supervisor and on the student's written reflective component assigned and evaluated by the supervising faculty member. May be used as a component of the Service Learning certification program. Prerequisite: at least one 300-level English course, declaration of English major, and permission of instructor. FLD

CHANGE: COURSE DESCRIPTION PREREQUISITE
ENGL 506 SCIENCE FICTION 3 H
(OLD) The development of science fiction as a literary genre, and as a literature of ideas for a future-oriented society. LEC

ENGL 506 SCIENCE FICTION 3 H
(NEW) The development of science fiction as a literary genre, and as a literature of ideas for a future-oriented society. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: COURSE DESCRIPTION PREREQUISITE
ENGL 507 SCIENCE, TECHNOLOGY, AND SOCIETY: EXAMINING THE FUTURE THROUGH A SCIENCE-FICTION LENS 3 H
(OLD) Science and technology offer many benefits to individuals and to societies, yet they also present many challenges. This course explores the past, present, and possible future effects of science and technology on society through readings and discussions of nonfiction articles in conjunction with science-fiction stories and novels. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 507 SCIENCE, TECHNOLOGY, AND SOCIETY: EXAMINING THE FUTURE THROUGH A SCIENCE-FICTION LENS 3 H
(NEW) Science and technology offer many benefits to individuals and to societies, yet they also present many challenges. This course explores the past, present, and possible future effects of science and technology on society through readings and discussions of nonfiction articles in conjunction with science-fiction stories and novels. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: COURSE DESCRIPTION PREREQUISITE TITLE
ENGL 521 LITERATURE FROM THE RENAISSANCE TO 1800: _____ 3 H
(OLD) A Study of texts written between 1485 and 1800. May be organized around a particular genre (e.g. poetry, prose, or drama), historical period (e.g. Elizabethan literature; literature of the English Civil War; eighteenth-century literature), a group of writers (e.g. women writers), or a theme (e.g. "Renaissance English Literature and the Environment" or "Sex, Politics and Drama 1660-1800"). Students are expected to practice research skills in their written assignments. May be repeated for
credit as topic varies. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 521 ADVANCED TOPICS IN BRITISH LITERATURE BEFORE 1800: ______ 3 H

A study of texts written before 1800. May be organized around a particular genre, historical period, group of writers, or a theme. May be repeated for credit as topic varies. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: NEW COURSE

ENGL 522 ENGL 522: ADVANCED TOPICS IN BRITISH LITERATURE AFTER 1800: ______ 3 H

A study of texts written after 1800. May be organized around a particular genre, historical period, group of writers, or a theme. May be repeated for credit as topic varies. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION

ENGL 525 ENGL 525: SHAKESPEARE: ______ 3 H

(OLD) Intensive study of selected works. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 525: SHAKESPEARE: ______ 3 H

(NEW) Intensive study of selected works. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION

ENGL 536 READINGS IN THE HOLOCAUST 3 H

(OLD) An examination of Holocaust literature, which may include fiction, nonfiction, poetry, drama, and film. Theoretical concerns may include such issues as memory, trauma, representation, imagination, exile, alienation, silence, the body and emotions, and intergenerational transmission. Prerequisite: Completion of the Freshman-Sophomore English requirement or its equivalent. LEC

ENGL 536 READINGS IN THE HOLOCAUST 3 H

(NEW) An examination of Holocaust literature, which may include fiction, nonfiction, poetry, drama, and film. Theoretical concerns may include such issues as memory, trauma, representation, imagination, exile, alienation, silence, the body and emotions, and intergenerational transmission. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION

ENGL 560 BRITISH LITERATURE OF THE 20TH CENTURY: ______ 3 H

(OLD) Study of twentieth-century literary works. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 560 BRITISH LITERATURE OF THE 20TH CENTURY: ______ 3 H

(NEW) Study of twentieth-century literary works. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION

ENGL 567 MODERN DRAMA: ______ 3 H

(OLD) A study of American, British, or comparative drama from the late nineteenth century to the present. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 567 MODERN DRAMA: ______ 3 H

(NEW) A study of American, British, or comparative drama from the late nineteenth century to the present. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC
<table>
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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 570</td>
<td><strong>TOPICS IN AMERICAN LITERATURE:</strong> ______ 1-3 H</td>
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<tr>
<td>(OLD)</td>
<td>Different topics in different semesters. May be repeated for credit as the topic changes.</td>
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<td>Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent.</td>
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<tr>
<td>ENGL 570</td>
<td><strong>TOPICS IN AMERICAN LITERATURE:</strong> ______ 3 H</td>
</tr>
<tr>
<td>(NEW)</td>
<td>Different topics in different semesters. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC</td>
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<td>CHANGE:</td>
<td><strong>DESCRIPTION PREREQUISITE</strong></td>
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<tr>
<td>ENGL 571</td>
<td><strong>AMERICAN INDIAN LITERATURE:</strong> ______ 3 H</td>
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<tr>
<td>(OLD)</td>
<td>The study of a wide range of American Indian literature, from various tribes and in a variety of</td>
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<td>genres. Satisfies the non-western culture course requirement. May be repeated for credit as the</td>
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<td>topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or</td>
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<td>its equivalent. LEC</td>
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<td>English course. LEC</td>
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<td>CHANGE:</td>
<td><strong>PREREQUISITE DESCRIPTION</strong></td>
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<tr>
<td>ENGL 572</td>
<td><strong>WOMEN AND LITERATURE:</strong> ______ 3 H</td>
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<tr>
<td>(OLD)</td>
<td>Different topics in different semesters. May be repeated for credit as the topic changes.</td>
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<td>Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent.</td>
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<td>ENGL 572</td>
<td><strong>WOMEN AND LITERATURE:</strong> ______ 3 H</td>
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<td>(NEW)</td>
<td>Different topics in different semesters. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC</td>
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<td><strong>PREREQUISITE DESCRIPTION</strong></td>
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<tr>
<td>ENGL 573</td>
<td><strong>U.S. LATINA/O LITERATURE:</strong> ______ 3 H</td>
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<tr>
<td>(OLD)</td>
<td>A study of the literature written by U.S. Latina/o writers of Mexican, Puerto Rican, Cuban,</td>
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<td>Dominican, and other Central/South American descent, in a variety of genres. Attention is given to</td>
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<td>the cultural and historical contexts of the literature and to the specificity of particular U.S. Latina/o groups. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC</td>
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<td>ENGL 573</td>
<td><strong>U.S. LATINA/O LITERATURE:</strong> ______ 3 H</td>
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<td>(NEW)</td>
<td>A study of the literature written by U.S. Latina/o writers of Mexican, Puerto Rican, Cuban,</td>
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<td>Dominican, and other Central/South American descent, in a variety of genres. Attention is given to</td>
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<td>the cultural and historical contexts of the literature and to the specificity of particular U.S. Latina/o groups. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC</td>
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<td>CHANGE:</td>
<td><strong>PREREQUISITE DESCRIPTION</strong></td>
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<tr>
<td>ENGL 574</td>
<td><strong>AFRICAN AMERICAN LITERATURE:</strong> ______ 3 H</td>
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<tr>
<td>(OLD)</td>
<td>A study of the literature written by African Americans from the pre-Civil War period to the</td>
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<td>present. Emphasis upon specific historical periods in the development of African American</td>
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<td>literature as well as on a critical analysis of major autobiographical, poetic, and fictional works. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC Prerequisite:</td>
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<td>ENGL 574</td>
<td><strong>AFRICAN AMERICAN LITERATURE:</strong> ______ 3 H</td>
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<td>literature as well as on a critical analysis of major autobiographical, poetic, and fictional works.</td>
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May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 575 LITERATURE OF THE AMERICAN SOUTH 3 H
(OLD) A survey of fiction, non-fiction, poetry, and drama written by selected writers of the American South from the pre-Civil War period to the present. The course will emphasize the critical analysis of individual texts as well as the cultural and historical context of the works. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 575 LITERATURE OF THE AMERICAN SOUTH 3 H
(NEW) A survey of fiction, non-fiction, poetry, and drama written by selected writers of the American South from the pre-Civil War period to the present. The course emphasizes the critical analysis of individual texts as well as the cultural and historical context of the works. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: COURSE DESCRIPTION PREREQUISITE
ENGL 578 POETRY, 1900-1945 3 H
(OLD) A Study of English-language poetry of the early twentieth century. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 578 POETRY, 1900-1945 3 H
(NEW) A study of English-language poetry of the early twentieth century. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 579 POETRY SINCE 1945 3 H
(OLD) A study of English-language poetry from the mid-twentieth century to the present. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 579 POETRY SINCE 1945 3 H
(NEW) A study of English-language poetry from the mid-twentieth century to the present. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 580 RHETORIC AND WRITING: ______ 3 H
(OLD) A study of selected broad topics in rhetoric and writing, including such topics as the rhetoric of law, the rhetoric of education, persuasion in literature, literacy, and rhetorical genres. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 580 RHETORIC AND WRITING: ______ 3 H
(NEW) A study of selected broad topics in rhetoric and writing, including such topics as the rhetoric of law, the rhetoric of education, persuasion in literature, literacy, and rhetorical genres. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 587 AMERICAN ENGLISH 3 H
(OLD) A study of the structure, history, and varieties of the English language in the United States from the period of colonization to the present. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 587 AMERICAN ENGLISH 3 H
(NEW) A study of the structure, history, and varieties of the English language in the United States from the period of colonization to the present. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC
CHANGE: PREREQUISITE DESCRIPTION
ENGL 592 SURVEY OF:____ 3 H
(OLD) A broad view of major works and authors in a particular period, genre, or mode. May be repeated for credit as the topic varies. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 592 SURVEY OF:____ 3 H
(NEW) A broad view of major works and authors in a particular period, genre, or mode. May be repeated for credit as the topic varies. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 610 THE LITERATURE OF ENGLAND TO 1500 3 H
(OLD) A survey of the literature of medieval England (in translation). Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 610 THE LITERATURE OF ENGLAND TO 1500 3 H
(NEW) A survey of the literature of medieval England (in translation). Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 620 RENAISSANCE ENGLISH LITERATURE:_____ 3 H
(OLD) A broad view of literary works written between 1485 and 1660. Surveys may be offered with focus on a particular genre (poetry, drama, or prose), historical period (16th- or 17th-century literature), or group of authors (women writers). May be repeated for credit as topic varies. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 620 RENAISSANCE ENGLISH LITERATURE:_____ 3 H
(NEW) A broad view of literary works written between 1485 and 1660. Surveys may be offered with focus on a particular genre (poetry, drama, or prose), historical period (16th- or 17th-century literature), or group of authors (women writers). May be repeated for credit as topic varies. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 633 MILTON 3 H
(OLD) A close reading of Paradise Lost, Paradise Regained, Samson Agonistes, and the minor poems, with illustrative selections of prose. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 633 MILTON 3 H
(NEW) A close reading of Paradise Lost, Paradise Regained, Samson Agonistes, and the minor poems, with illustrative selections of prose. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 640 BRITISH LITERATURE, 1600-1800:_____ 3 H
(OLD) Study of literary works from the Restoration and eighteenth century. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the Freshman-sophomore English requirement or its equivalent. LEC

ENGL 640 BRITISH LITERATURE, 1600-1800:_____ 3 H
(NEW) Study of literary works from the Restoration and eighteenth century. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 650 ROMANTIC LITERATURE:_____ 3 H
(OLD) Study of literary works from the British Romantic period. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 650 ROMANTIC LITERATURE: _____ 3 H

(NEW) Study of literary works from the British Romantic period. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 655 VICTORIAN LITERATURE: _____ 3 H

(OLD) Study of literary works from the British Romantic period. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 655 VICTORIAN LITERATURE: _____ 3 H

(NEW) Study of literary works from the British Romantic period. Topics may focus on a particular genre, theme, historical period or group of authors. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

CHANGE: PREREQUISITE DESCRIPTION
ENGL 690 STUDIES IN: _____ 3 H

(OLD) A study of a major topic of concern to English literature. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 690 STUDIES IN: _____ 3 H

(NEW) A study of a major topic of concern to English literature. May be repeated for credit as the topic changes. Capstone course. Prerequisite: Prior completion of at least one 300- or 400-level English course. LEC

ENVIRONMENTAL STUDIES

CHANGE: COURSE DESCRIPTION CREDIT COURSE IS CURRENTLY CROSSLISTED
EVRN 140 GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE 3 U

(OLD) This interdisciplinary course and its laboratory (EVRN 141) survey the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. To be taken with EVRN 141. (Same as GEOG 140 and HIST 140.) LEC

EVRN 140 EVRN 140: GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGEQ 5 U

(NEW) This interdisciplinary course and laboratory sections survey the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. (Same as GEOG 140 and HIST 140.) LEC/LAB

CHANGE: COURSE DESCRIPTION TITLE CREDIT NUMBER COURSE IS CURRENTLY CROSSLISTED
EVRN 141 EVRN 141: GLOBAL ENVIRONMENT I: INTERDISCIPLINARY LABORATORY 2 U
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. To be taken with EVRN 140. (Same as GEOG 141 and HIST 141.) LAB  

**EVRN 144** GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE, 

**HONORS**

5 U  
This interdisciplinary course surveys the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. (Same as GEOG 144 and HIST 144.) Open only to students admitted to the University Honors Program or by permission of instructor. LEC/LAB

**CHANGE:**  
**COURSE DESCRIPTION** CREDIT COURSE IS CURRENTLY CROSSLISTED  
**EVRN 142** GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION  3 U  
This interdisciplinary course and its laboratory (EVRN 143) survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. To be taken with EVRN 143. (Same as GEOG 142 and HIST 142.) LEC/LAB

**EVRN 142** GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION  5 U  
This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as GEOG 142 and HIST 142)

**CHANGE:**  
**COURSE DESCRIPTION** TITLE CREDIT NUMEBER COURSE IS CURRENTLY CROSSLISTED  
**EVRN 143** GLOBAL ENVIRONMENT II: INTERDISCIPLINARY LABORATORY  2 U  
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. To be taken with EVRN 142. (Same as GEOG 143 and HIST 143) LAB  
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. To be taken with EVRN 142. (Same as GEOG 143 and HIST 143) LAB

**EVRN 145** GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION, HONORS  5 U  
This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as GEOG 145 and HIST 145) Open only to students admitted to the University Honors Program or by permission of instructor.
EUROPEAN STUDIES

CHANGE: TITLE
EURS 302 EUROPEAN CULTURE AND SOCIETY 1945 TO PRESENT: DECLINE OF MODERNITY AND RISE OF POSTMODERNISM  3 H

(OLD) The course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. The course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as HWC 302.) LEC

EURS 302 EUROPEAN CULTURE AND SOCIETY 1945 TO PRESENT  3 H

(NEW) The course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. The course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as HWC 302.) LEC

FIRST YEAR SEMINAR

CHANGE: NEW COURSE
XXXX 177 FIRST YEAR SEMINAR: ______________  3 U

A limited-enrollment, seminar course for first-time freshmen, addressing current issues in [discipline]. Course is designed to meet the critical thinking learning outcome of the KU Core. First-Year Seminar topics are coordinated and approved by the Office of First-Year Experience. Prerequisite: first-time freshman status.

JUSTIFICATION

On behalf of the Office of First Year Experiences, the First Year Seminar Steering Committee, and the University Core Curriculum Committee, I am requesting approval of a template course description for a First Year Seminar course in all departments in the college. I have selected PSYC for the discipline code for this particular request because that is my home department (and because the system will not allow multiple departments to be checked) but this request is for the template description to be approved for all college departments. The university developed plans for the First Year Seminar program through the strategic planning process in over the last two years, and 11 pilot courses are currently being offered and evaluated. These courses are part of a university wide program and have already received UCCC approval. We are now submitting a request for collaboration to all university department and school curriculum committees to ensure broad participation by faculty across the university. The Office of First-Year Experience would coordinate and approve topics for new FYS that are submitted by faculty members and approved by the department of the faculty member.

AAAS 177, AMHR 177, ARAB 177, HAIT 177, HAUS 177, KISW 177, WOLO 177, AMS 177, ANTH 177, ABSC 177, ASTR 177, ATMO 177, BIOL 177, CHEM 177, CLSX 177, GRK 177, LAT 177, COMS 177, EALC 177, ECIV 177, CHIN 177, JPN 177, KOR 177, MONG 177, TIB 177, UYGR 177, ECON 177, ENGL 177, EVRN 177, EURS 177, FREN 177, ITAL 177, GEOG 177, GEOL 177, GERM 177, DANE 177, DTCH 177, HNGR 177, NORW 177, SCAN 177, SWED 177, GIST 177, HIST 177, HA 177, HNRS 177, HWC 177, LAA 177, LA&S 177, LING 177, MATH 177, PHIL 177, PHSX 177, POLS 177, PSYC 177, PUAD 177, REL 177, JWSH 177, HEBR 177, HNDI 177, REES 177, SLAV 177, BCRS 177, CZCH 177, PLSH 177, RUSS 177, TURK 177, UKRA 177, YDHS 177, SOC 177, SPAN 177, PORT 177, SPLH 177, WGSS 177, ADSC 177, DRWG 177, EXM 177, FMS 177, THR 177, DANC 177, ART 177, CER 177, PRNT 177, METL 177, PNTG 177, SCUL 177, TD 177, VAE 177

GEOGRAPHY

CHANGE: COURSE DESCRIPTION CREDIT
GEOG 140 GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE  3 U

(OLD) This interdisciplinary course and its laboratory (EVRE 141) survey the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences.
Key topics will include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. To be taken with EVRN 141. (Same as GEOG 140 and HIST 140.) LEC

GEOG 140
GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE 5 U
This interdisciplinary course and laboratory sections survey the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. (Same as EVRN 140 and HIST 140.) LEC/LAB

CHANGE:
COURSE DESCRIPTION TITLE CREDIT NUMBER
GEOG 141
GLOBAL ENVIRONMENT I: INTERDISCIPLINARY LABORATORY 2 U
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. To be taken with EVRN 140. (Same as GEOG 141 and HIST 141.) LAB

GEOG 144
GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE, HONORS 5 U
This interdisciplinary course surveys the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. (Same as EVRN 144 and HIST 144.) Open only to students admitted to the University Honors Program or by permission of instructor. LEC/LAB

CHANGE:
COURSE DESCRIPTION CREDIT COURSE IS CURRENTLY CROSS-LISTED
GEOG 142
GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION 3 U
This interdisciplinary course and its laboratory (EVRN 143) survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. To be taken with GEOG 143. (Same as EVRN 142 and HIST 142.) LEC

GEOG 142
GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION 5 U
This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as EVRN 142 and HIST 142)

CHANGE:
COURSE DESCRIPTION TITLE CREDIT NUMBER COURSE IS CURRENTLY CROSS-LISTED
GEOG 143
GLOBAL ENVIRONMENT II: INTERDISCIPLINARY LABORATORY 2 U
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. To be taken with GEOG 142. (Same as EVRN 143 and HIST 143) LAB

**GEOG 145**
**GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION, HONORS 5 U**
This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as EVRN 145 and HIST 145) Open only to students admitted to the University Honors Program or by permission of instructor.

**GEOLOGY**

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<tr>
<td><strong>GEOL 562</strong></td>
<td>STRUCTURAL GEOLOGY 4 H</td>
</tr>
<tr>
<td><strong>(OLD)</strong></td>
<td>A study of primary and secondary rock-structures and their genesis. Includes techniques of structural analysis and introduces mechanics of rock deformations. Lectures, laboratory, and required field trip. Prerequisite: GEOL 311 and PHSX 111 or PHSX 114 or PHSX 211, and MATH 115 or MATH 121. LEC</td>
</tr>
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</table>

| **GEOL 562** | STRUCTURAL GEOLOGY 4 H |
| **(NEW)** | A study of primary and secondary rock-structures and their genesis. Includes techniques of structural analysis and introduces mechanics of rock deformations. Lectures, laboratory, and required field trip. Prerequisite: GEOL 311; PHSX 111, PHSX 114, or PHSX 211 and PHSX 216; and MATH 115 or MATH 121. LEC |

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<tr>
<td><strong>GEOL 572</strong></td>
<td>GEOPHYSICS 3 H</td>
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<tr>
<td><strong>(OLD)</strong></td>
<td>Introductory study of gravitational, magnetic, seismic, electrical, and thermal properties of the earth. Measurements, interpretation, and applications to exploration, earth structure, and global tectonics. Prerequisite: an introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212. PHSX 115 or PHSX 212 may be taken concurrently. LEC</td>
</tr>
</tbody>
</table>

| **GEOL 572** | GEOPHYSICS 3 H |
| **(NEW)** | Introductory study of gravitational, magnetic, seismic, electrical, and thermal properties of the earth. Measurements, interpretation, and applications to exploration, earth structure, and global tectonics. Prerequisite: an introductory course in geology; MATH 116 or MATH 122; and PHSX 115 or PHSX 212 and PHSX 236. PHSX 115 or PHSX 212 may be taken concurrently. LEC |

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<td><strong>GEOL 573</strong></td>
<td>GEODYNAMICS AND PLATE TECTONICS 3 H</td>
</tr>
<tr>
<td><strong>(OLD)</strong></td>
<td>Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global tectonics. (Same as PHSX 528.) Prerequisite: An introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212 or PHSX 214. LEC</td>
</tr>
</tbody>
</table>

| **GEOL 573** | GEODYNAMICS AND PLATE TECTONICS 3 H |
| **(NEW)** | Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global |
tectonics. (Same as PHSX 528.) Prerequisite: An introductory course in geology; MATH 116 or MATH 122; and PHSX 115, PHSX 214, or PHSX 212 and PHSX 236. LEC

CHANGE: PREREQUISITE
GEOL 577 ENVIRONMENTAL GEOPHYSICS 3 H
(OLD) Application of the methods of geophysical exploration to evaluate, mitigate, and prevent environmental problems below the surface of the earth. Development of fundamental principles and discussion of environmental case histories using seismic, gravity, magnetic, electromagnetic, electrical, and radar methods. Prerequisite: An introductory course in geology; MATH 116 or MATH 122, and PHSX 115, PHSX 214, or PHSX 212. LEC  Prerequisite: 

GEOL 577 ENVIRONMENTAL GEOPHYSICS 3 H
(NEW) Application of the methods of geophysical exploration to evaluate, mitigate, and prevent environmental problems below the surface of the earth. Development of fundamental principles and discussion of environmental case histories using seismic, gravity, magnetic, electromagnetic, electrical, and radar methods. Prerequisite: An introductory course in geology; MATH 116 or MATH 122; and PHSX 115, or PHSX 212 and PHSX 236. LEC

GERMAN

CHANGE: NEW COURSE
GERM 316 DISCUSSION SECTION FOR GERMAN LITERATURE AND THE MODERN ERA 1 H Discussion section to be taken with GERM 315: German Literature and the Modern Era. Introduction to critical German vocabulary for discussing German-language literature in its historical and cultural context. Prerequisite: GERM 202 or placement by examination. GERM 315 qualifies for major or minor credit when taken with GERM 316.

CHANGE: NEW COURSE
GERM 335 LOVE AND THE GERMAN MIDDLE AGES 3 H Taught in English. Introduction to German conceptions of love, marriage, and adultery in medieval and early modern German-speaking Europe. Exploration of the German contribution to discourse of love through theoretical, literary, and legal texts, as well as through visual and material culture. Examination of German discourse within the broader European context, and of similarities, differences, and continuities between medieval and modern constructs. Does not count toward German major or minor.

CHANGE: NEW COURSE
GERM 375 TOPICS IN THE FILM OF GERMAN-SPEAKING EUROPE: __________ 3 H Examination of topics such as Expressionism, Turkish-German culture in contemporary German film, popular filmmaking, post-unification film, German literature as film, German film and national identity. Topics and periods vary. Prerequisite: GERM 302.

CHANGE: NEW COURSE
GERM 401 ADVANCED GERMAN I 3 H Continuation of GERM 302. Expansion and refinement of proficiency in German (speaking, listening, reading, writing), increased understanding of German grammatical structures, development of a more sophisticated vocabulary, and introduction to stylistics through discussion and analysis of literary and nonliterary texts. Students successfully completing GERM 401 may take all other GERM courses at the 400 and 500 levels. Prerequisite: GERM 302.

CHANGE: NEW COURSE
GERM 402 ADVANCED GERMAN II 3 H Continuation of GERM 401. Development of advanced proficiency in German through analysis and discussion of literary and nonliterary texts and practice in advanced composition. Emphasis in both discussions and papers on style and rhetoric and on developing skill in textual analysis.
on advanced German grammar and on style and idiomatic expression in spoken and written German. Prerequisite: GERM 401.

CHANGE: NEW COURSE
GERM 475  TOPICS IN GERMAN STUDIES:__________  3  H
Exploration of cultural forms such as literature, film, philosophy, social institutions, linguistics, the arts, and the press. Examination of how cultural meaning is produced and interpreted. Topics vary, and course may address topics across a narrow or broad time frame. May be repeated if content varies. Prerequisite: GERM 316 and GERM 401.

CHANGE: NEW COURSE
GERM 501  ADVANCED GERMAN III  3  H
Focus on usage-based grammar of contemporary German. Extensive reading and analysis of grammatical structures in context and integration of form, meaning, and use. Exploration of grammatical structures using contemporary electronic textual analysis tools. Prerequisite: GERM 402.

CHANGE: NEW COURSE
GERM 550  GERMAN LANGUAGE SEMINAR: HISTORY OF THE GERMAN LANGUAGE  3  H
Introduction to basic concepts of German philology and historical linguistics and exploration of the development of a national German language. Prerequisites: GERM 316 and GERM 401.

CHANGE: NEW COURSE
GERM 560  GERMAN LANGUAGE SEMINAR: STRUCTURE OF THE GERMAN LANGUAGE  3  H
This course provides an overview of the structure of modern standard German. Students will explore different levels of the linguistic system of German (including phonology, morphology, and syntax) and complete practical exercises. Prerequisites: GERM 316 and GERM 401.

CHANGE: NEW COURSE
GERM 575  TOPICS IN GENRE: ________  3  H
Study of the definition, style, form, and content of a specific literary genre in German-language literature and the social, cultural, political, and economic factors that led to its emergence. Consideration of the genre's suitability for particular writers or periods. Topic and period vary. May be repeated if content varies. Prerequisites: GERM 316 and GERM 401.

CHANGE: NEW COURSE
GERM 580  SENIOR CAPSTONE COURSE: GERMAN-SPEAKING EUROPE TODAY  3  H
Focus on synthesizing students' knowledge of the history, culture, and politics of German-speaking Europe 1945-present. Consideration of scholarly articles, journalism, essays, literary texts, film, and the arts on topics including cultural identity in post-unified Germany; European integration; current debates and controversies; political parties and leading political figures; role of literature, film, music, visual arts, media, and popular culture; role of universities. Required of all German majors in senior year. Prerequisites: GERM 316, GERM 401, and senior standing.

CHANGE: NEW COURSE
GERM 598  RESEARCH FOR DEPARTMENTAL HONORS  3  H
Research for a departmental honors project, on a topic chosen in conjunction with the faculty advisor. Emphasis on independent study and writing. Open to students with previous coursework in German at the 400 level, an overall 3.0 GPA, and at least a B+ average in advanced work in German. Prerequisites: GERM 316, GERM 401, senior standing, and permission of Undergraduate Advisor.
CHANGE: NEW COURSE
GERM 599 DEPARTMENTAL HONORS PROJECT 3 H
Continuation of GERM 598. Course consists of completion of Departmental Honors project. Quality of project determines whether student receives credit only or Honors in German. Prerequisite: GERM 598.

CHANGE: NEW COURSE
GERM 315 GERMAN LITERATURE AND THE MODERN ERA 3 H
Introduction in English to German writers 1750-present. Discussion of themes such as technology, modern and postmodern developments, gender, war, politics, and culture in German-speaking Europe. Readings include works in translation by influential German writers. Open to first-year students and non-majors; qualifies for major or minor credit when taken with GERM 316, a one-hour discussion section. GERM 315 and 316 are required for admission to all courses beyond GERM 402 (except GERM 444 and 462).

CHANGE: DELETE COURSE
GERM 102 ELEMENTARY GERMAN B1 3 U
Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the first course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 104. LEC

CHANGE: COURSE DESCRIPTION AND TITLE
GERM 104 ELEMENTARY GERMAN I 5 U (OLD)
Essentials of grammar, practice in speaking, reading, and writing German. Five hours of recitation per week. Intended as the first course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216. Not open to native speakers of German. Open for only 2 hours credit to students who have completed GERM 102. LEC

GERM 104 ELEMENTARY GERMAN I 5 U (NEW)
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.

CHANGE: DELETE COURSE
GERM 105 ELEMENTARY GERMAN AI HONORS 5 U
Course content similar to GERM 104, with additional cultural study. Five hours of recitation per week. Not open to native speakers of German. Open for only 2 hours credit for students who have completed GERM 102. Prerequisite: Eligibility for or admission to University Honors Program. LEC

CHANGE: DELETE COURSE
GERM 106 ELEMENTARY GERMAN BII 3 U
Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the second course in sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 104. Prerequisite: GERM 102 or equivalent. LEC

CHANGE: DELETE COURSE
GERM 107 ELEMENTARY GERMAN II WITH REVIEW OF GERMAN I 5 U
Continuation of grammar with review of material covered in Elementary German I; practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of German. Prerequisite: One semester of college German or the equivalent prior to entering K.U. LEC
CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND TITLE

GERM 108  ELEMENTARY GERMAN AII  5  U
(OLD)  Continuation of grammar; practice in conversation, composition, and reading. Five hours of recitation per week. Intended as the second course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 110. Prerequisite: GERM 104 or GERM 106. LEC

GERM 108  ELEMENTARY GERMAN II  5  U
(NEW)  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.

CHANGE: DELETE COURSE

GERM 109  ELEMENTARY GERMAN AII HONORS  5  U
Course content similar to GERM 108, with additional cultural study. Five hours of recitation per week. Prerequisite: Open to students who received the grade of A in GERM 104 or GERM 106, or an A or B in GERM 105. Not open to native speakers of German. Not open to students who have completed GERM 110. LEC

CHANGE: DELETE COURSE

GERM 110  ELEMENTARY GERMAN BIII  3  U
Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the third course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 108. Prerequisite: GERM 106.

CHANGE: DELETE COURSE

GERM 118  INTENSIVE GERMAN  11  U
Same content as GERM 108, GERM 212, and GERM 216 but accomplished in one semester of intensive study. This course also includes readings, lectures, and discussions on topics in art, history, and politics. Not open to native speakers of German. Prerequisite: Eligibility for GERM 108 and consultation with the department. LEC

CHANGE: DELETE COURSE

GERM 120  GERMAN CLASSICS IN ENGLISH TRANSLATION  3  H
Discussion of landmark works in German drama, poetry, and prose. Not open to native speakers of German. LEC.
Course type: HL / H

CHANGE: COURSE DESCRIPTION

GERM 124  GERMAN CINEMA IN CONTEXT  3  H
(OLD)  Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About fifteen full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. LEC

GERM 124  GERMAN CINEMA IN CONTEXT  3  H
(NEW)  Taught in English. Screening and analysis of German films from the early 20th century to the present. Readings, lectures, and discussions on the films' sources, ideologies, techniques, and artistic achievements. Does not count toward the German major or minor.
CHANGE: COURSE DESCRIPTION
GERM 125  GERMAN CINEMA IN CONTEXT, HONORS  3  H
(OLD) Course content similar to GERM 124. Background readings, lectures, and discussions in English about major German films and their historical and cultural contexts. About 15 full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the films' sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. LEC

GERM 125  GERMAN CINEMA IN CONTEXT, HONORS  3  H
(NEW) Course content similar to GERM 124. Taught in English. Screening and analysis of German films from the early 20th century to the present. Readings, lectures, and discussions on the films' sources, ideologies, techniques, and artistic achievements. Does not count toward German major or minor. LEC

CHANGE: DELETE COURSE
GERM 132  THE GERMAN CULTURAL HERITAGE  3  H
Readings, lectures, and discussions in English on German intellectual thought, the fine arts, mythology, and folklore in historical and literary context. Not open to native speakers of German. LEC Course Type: H / HL

CHANGE: COURSE DESCRIPTION  TITLE
GERM 136  THE GERMAN-AMERICAN EXPERIENCE  3  H
(OLD) Readings, lectures, and discussion in English on the immigration and acculturation of German-speaking ethnic groups in Colonial America and the United States. Emphasis on Americanization during the Colonial period, discrimination in the pre-Civil War era, integration in the post-Civil War era, anti-German hysteria during the World War I era, exiles during the Nazi period, and the near total assimilation of this ethnic group in the United States during the 20th century. LEC

GERM 136  THE GERMAN TRANSATLANTIC EXPERIENCE  3  H
(NEW) Taught in English. Introduction to the migration of German-speaking Europeans to North America, 17th century-present. Consideration of European and North American factors motivating migration, the journey to the New World, the experiences of immigrants and their descendants, and the ways in which German-speaking Europeans shaped the multicultural history of America.

CHANGE: COURSE DESCRIPTION
GERM 148  GERMANIC MYTHOLOGY, RELIGION, AND FOLKLORE  3  H
(OLD) An introduction to the pagan myths and beliefs of Teutonic antiquity and their survival in the popular traditions of Germanic countries. Selected readings in the Eddas and other sources (in translation). General orientation toward aspects of comparative mythology, archaeology, and anthropology. No knowledge of German or Scandinavian languages is required. Not open to native speakers of German. LEC

GERM 148  GERMANIC MYTHOLOGY, RELIGION, AND FOLKLORE  3  H
(NEW) Taught in English. Introduction to the pagan myths and beliefs of Teutonic antiquity and their survival in the popular traditions of Germanic countries, within the framework of comparative mythology, archaeology, and anthropology. Does not count toward the German major or minor.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER
GERM 212  INTERMEDIATE GERMAN I  3  U
(OLD) A continuation of GERM 108 or GERM 110. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Intended as the third course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216, or as the fourth course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Prerequisite: GERM 108, GERM 110, or equivalent. LEC
GERM 201  INTERMEDIATE GERMAN I  3  U
(NEW) 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.

CHANGE: DELETE
GERM 213  INTERMEDIATE GERMAN I, HONORS  3  H
Course content similar to GERM 212, with additional cultural study. Three class meetings per week. Not open to native speakers of German. Prerequisite: Completion of GERM 108 and GERM 110 with a grade of A or GERM 109 with a grade of A or B. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER
GERM 216  INTERMEDIATE GERMAN II  3  U
(OLD) A continuation of GERM 212. Structured grammar review, composition, conversation with readings of literary and cultural texts. Three class meetings per week. Intended as the fourth course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216, or as the fifth course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Prerequisite: GERM 212 or equivalent. LEC

GERM 202  INTERMEDIATE GERMAN II  3  U
(NEW) 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.

CHANGE: DELETE
GERM 217  INTERMEDIATE GERMAN II, HONORS  3  H
Course content similar to GERM 216, with additional cultural study. Three class meetings per week. Not open to native speakers of German. Prerequisite: Completion of GERM 212 with a grade of A or GERM 213 with a grade of A or B. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 218  INTRODUCTION BUSINESS GERMAN: DEUTSCH IM BERUFSALLTAG  3  H
(OLD) A continuation of GERM 212 that completes the fourth semester language proficiency requirement. Structured grammar review, composition, conversation, and reading with the focus on the basics of the German business communication. Especially recommended for students planning to take GERM 352 and GERM 462. Three class meetings per week. Not open to native speakers of German. Prerequisite: GERM 212 or equivalent. LEC

GERM 203  INTRODUCTION TO BUSINESS GERMAN: DEUTSCH IM BERUFSALLTAG  3  H
(NEW) 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.

CHANGE: DELETE COURSE
GERM 219  INTENSIVE INTERMEDIATE GERMAN  6  U
One-semester course meeting seven times a week. The material covered is the same as in GERM 212 and contains selections from GERM 216. This course includes written and oral composition, conversation, and grammar review; readings and discussions in the areas of German literature and culture (e.g. art, history, and politics). Not open to native speakers of German. Prerequisite: GERM 108 or equivalent and consent of instructor. LEC
CHANGE: COURSE DESCRIPTION

GERM 220  SPECIAL STUDIES IN GERMANIC LANGUAGE  1-5 U  
(OLD)  This course is designed for the elementary study of a Germanic language. Course work must be arranged through the KU Office of Study Abroad. May be repeated for credit if content varies. LEC

GERM 220  SPECIAL STUDIES IN GERMANIC LANGUAGES  1-5 U  
(NEW)  Credits awarded for elementary instruction in a Germanic language while studying abroad. Transfer credits must be arranged through the KU Office of Study Abroad, with permission from the departmental undergraduate advisor. May be repeated for credit if content varies. LEC

CHANGE: COURSE DESCRIPTION

GERM 222  SPECIAL STUDIES IN GERMAN: ________ 1-3 H  
(OLD)  This course is designed for the study of special topics in German. Coursework must be arranged through the KU Office of Study Abroad. May be repeated for credit if content varies. LEC

GERM 222  SPECIAL STUDIES IN GERMAN: ________ 1-3 H  
(NEW)  Credits awarded for the study of special topics in German while studying abroad. Transfer credits must be arranged through the KU Office of Study Abroad, with permission from the departmental undergraduate advisor. May be repeated for credit if content varies.

CHANGE: DELETE COURSE

GERM 240  MAJOR GERMAN INTELLECTUAL TEXTS  3 U  
Analysis of excerpts (read in the original German) from the works of such writers as Marx, Nietzsche, Freud, and Einstein. Prerequisite: GERM 212. LEC

CHANGE: DELETE COURSE

GERM 244  SCIENTIFIC GERMAN  3 U  
Intended primarily for premedical students and for students majoring in the natural and social sciences. In addition to the class text there are appropriate outside readings. Prerequisite: GERM 212. LEC

CHANGE: DELETE

GERM 256  INTRODUCTION TO GERMAN FOLKLORE  3 H  
History, theory, and practice of German folklore with selected readings in German and discussions in English. Special emphasis on the contributions of the Grimm brothers. Not open to native speakers of German. Prerequisite: GERM 212 or equivalent. LEC

CHANGE: COURSE DESCRIPTION

GERM 320  BORDER CROSSINGS IN GERMAN CULTURE  3 H  
(OLD)  Taught in English. Provides a general introduction to German culture and its transformations in international contexts through an examination of the historical, cultural, and literary impact of German emigration and immigration. Historical periods covered include the emigration wave to America after the failed 1848 revolution, the exile communities during the Nazi era, and the multinational migrations in contemporary Germany. Does not fulfill any requirement in the German major or minor. LEC

GERM 320  BORDER CROSSINGS IN GERMAN CULTURE  3 H  
(NEW)  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.
CHANGING COURSE DESCRIPTION

GERM 324 MAGIC, MONSTERS AND THE OCCULT IN GERMAN LITERATURE 3 H (OLD)
Taught in English. For centuries German scientists, philosophers and poets have produced groundbreaking literature that has featured magic, monsters and the occult sciences. German poets introduced popular themes, such as the Faust legend and the pact with the devil, and they introduced one of the most popular monsters into literature - the vampire. In this course we will read and discuss fictional and nonfictional works by German authors that address these themes, and we will discuss the influence that these works have had on other nations' literatures. Does not fulfill any requirement in the German major or minor. LEC

GERM 324 MAGIC, MONSTERS AND THE OCCULT IN GERMAN LITERATURE 3 H (NEW)
Taught in English. Reading and discussion of fictional and non-fictional works by German writers that address topics such as magic, monsters, the occult sciences, the Faust legend and pact with the devil, and the vampire. Consideration of the works' influence on other nations' literatures. Does not count toward the German major or minor.

CHANGING COURSE DESCRIPTION AND TITLE

GERM 328 GERMANY IN THE ARTS 3 H (OLD)
Taught in English. This course offers an introduction to art and culture in Germany. This is achieved by exploring a variety of themes, such as music, the arts, pop culture, theater and film. The course places special attention on the historical and cultural context from which these art forms were created. Does not fulfill any requirement in the German major or minor. LEC

GERM 328 THE ARTS IN GERMAN-SPEAKING EUROPE 3 H (NEW)
Taught in English. Exploration of the arts in German-speaking Europe: major cultural periods, movements, art forms, and people (artists, architects, composers, writers, filmmakers) from the Middle Ages to the present. Consideration of the arts within the larger European historical and cultural context from which they emerged. Does not count toward the German major or minor.

CHANGING COURSE DESCRIPTION

GERM 332 BERLIN IN GERMAN CULTURE 3 H (OLD)
Taught in English. An introduction to Berlin as a microcosm of major historical, social, intellectual, and artistic developments in German culture since 1800. Complex epochs such as Bismarckian Prussia, Nazi Germany, the Cold War and Unification are illustrated through diverse materials including news reports, poetry, sociological accounts as well as film and other media. Does not fulfill any requirement in the German major or minor. LEC

GERM 332 BERLIN IN GERMAN CULTURE 3 H (NEW)
Taught in English. Introduction to Berlin within the context of major German and European historical, social, intellectual, and artistic developments since 1800. Exploration of complex epochs such as the Bismarck, Nazi, Cold War, and post-unification eras through journalism, literature, sociological writings, and film. Does not count toward German major or minor.

CHANGING COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE

GERM 344 GERMAN HISTORY AND WRITING PRACTICE 3 H (OLD)
Extensive practice in writing creatively and speaking German with an emphasis on German history and extensive review of grammar and advanced writing structures. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 301 HIGH INTERMEDIATE GERMAN I 3 H (NEW)
Continuation of GERM 202. Further development of students' use of German through reading and discussion of literary and non-literary texts (spoken, written, multimedia, combined with intensive grammar review. Introduction to expressive functions of German with emphasis on spoken and written communication. Not open to native speakers of German. Students who complete this course successfully should take GERM 302. Prerequisite: GERM 202 or placement by examination.
CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE

GERM 348  GERMAN CULTURE AND WRITING PRACTICE  3 H
Extensive practice in writing creatively and speaking German with an emphasis on German
culture and extensive review of grammar and advanced writing structures. Not open to native
speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 302  HIGH INTERMEDIATE GERMAN II  3 H
Continuation of GERM 301. Refinement and expansion of students' use of German. Reading and
discussion in German of literary and non-literary texts (spoken, written, multimedia), combined
with continued intensive grammar review. Emphasis on better understanding German grammatical
structures and acquisition of vocabulary. Not open to native speakers of German. Students who
complete this course successfully should take GERM 401. Prerequisite: GERM 301 or placement
by examination.

CHANGE: DELETE COURSE
GERM 350  EARLY MEDIEVAL LITERATURE  3 H
Literary masterpieces of the early European Middle Ages will be studied in English translation,
especially legendary, heroic, and epic works written in Celtic and Anglo-Saxon, Norse and
German, French and Spanish. Topics in Latin culture will include poetry and liturgy, Augustine
and Boethius, the Dark Ages and the Carolingian Renaissance. Not open to native speakers of
German. LEC

CHANGE: DELETE COURSE
GERM 351  LATER MEDIEVAL LITERATURE  3 H
Literary masterpieces of the later European Middle Ages will be studied in English translation,
especially the poetry of courtly love and the Arthurian romances written in French, German, and
English. Dante, Boccaccio, and Chaucer will also be included, as will examples typical of Latin
religious and secular literature and of vernacular prose genres, e.g. chronicles, travel accounts, and
biographies. Not open to native speakers of German. LEC

CHANGE: PREREQUISITE
GERM 352  BUSINESS GERMAN/DEUTSCH FUR DEN BERUF  3 H
(OLD)  
Extensive practice in business communication: terminology, texts and correspondence, oral
practice in business situations. Not open to native speakers of German. Prerequisite: GERM 216
or equivalent. LEC

GERM 352  BUSINESS GERMAN/DEUTSCH FUR DEN BERUF  3 H
(NEW)
Extensive practice in business communication: terminology, texts and correspondence, oral
practice in business situations. Not open to native speakers of German. Prerequisite: GERM 202
or placement by examination.

CHANGE: DELETE COURSE
GERM 356  TRANSLATION INTO GERMAN--INTERMEDIATE LEVEL  3 H
Exercises in the translation of a variety of texts from contemporary journalism, cultural affairs,
and the social sciences. Translation of expository writing introduces the student to special
semantics and syntactic contrast between English and German. Not open to native speakers of
German. Prerequisite: GERM 216 or equivalent. LEC

CHANGE: DELETE COURSE
GERM 372  READINGS AND EXERCISES IN THE GERMAN OF THE PROFESSIONS AND SOCIAL
SCIENCES  3 H
Readings from current German newspapers and periodicals introduce the student to journalistic
style and special terminology in such fields as cultural affairs, business, and politics. Exercises in
written German pertaining to these and other fields will be assigned. Not open to native speakers
of German. Prerequisite: GERM 216 or equivalent. LEC
CHANGE: DELETE COURSE
GERM 408  INTRODUCTION TO GERMAN LITERATURES I 3 H
An introduction to German literature from 1890 to the present. Emphasis on development of interpretive skills, as well as an understanding of literary movements, genres, and concepts of this period. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, or GERM 348. LEC

CHANGE: DELETE COURSE
GERM 416  INTRODUCTION TO GERMAN LITERATURE II 3 H
An introduction to German literature from 1750-1890. Emphasis on development of interpretive skills, as well as an understanding of literary movements, genres, and concepts of this period. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, or GERM 348. LEC

CHANGE: DELETE COURSE
GERM 420  GERMAN LITERATURE IN ENGLISH TRANSLATION: 3 H
Lectures, assigned readings, and discussions in English. Emphasis on the nineteenth and twentieth centuries, with some consideration of parallel literary phenomena in France, England, and the United States. Not open to native speakers of German. LEC

CHANGE: DELETE COURSE
GERM 424  GERMAN CINEMA IN CONTEXT 3 H
Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About fifteen full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. Students taking GERM 424 will be expected to work at a higher level. (Same as EURS 511) LEC

CHANGE: DELETE COURSE
GERM 425  GERMAN CINEMA IN CONTEXT FOR GERMAN MAJORS AND MINORS 3 H
Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About 15 full-length films from 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Fulfills elective requirements in the German major or minor. Portions of the assignments will be in German. Not open to native speakers of German. Prerequisite: One 300-level German course or permission of instructor. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND TITLE
GERM 444  GERMAN CONVERSATION FOR EVERYDAY USE 3 H
(OLD) The goal of this course is to maintain and further develop practical conversational skills of students who already have a basic knowledge of German. Discussion will range among topics from everyday German life and current affairs, with German newspapers and magazines providing the orientation. May be repeated. May only be counted once toward the minimum 30 hours in the major. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 444  GERMAN CONVERSATION 3 H
(NEW) Further development of practical conversational skills for students with intermediate proficiency in German. Discussion of topics from everyday German life and current affairs, based on German newspapers and magazines. May be repeated but counts only once toward the major or minor. Not open to native speakers of German. Prerequisite: GERM 302.

CHANGE: DELETE COURSE
GERM 504  GERMAN POETRY 3 H
The appreciation and understanding of selected masterpieces of German poetry, with attention to the basic poetic forms, techniques, and phonological features. Prerequisite: Two literature courses
from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 568 German Literature from 1750-1805 3 H
(OLD) Readings and discussions in German of selected literary works of the classical period. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 481 Literature and Culture of German-Speaking Europe 1750-1830 3 H
(NEW) Exploration of literature within the framework of major cultural movements and historical, political, and economic change. Prerequisite: GERM 316 and GERM 401.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 572 German Literature from 1805-1890 3 H
(OLD) Readings and discussions in German of selected literary works of the nineteenth century. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 482 Literature and Culture of German-Speaking Europe 1830-1918 3 H
(NEW) Exploration of literature within the framework of major cultural movements and historical, political, and economic change. Prerequisites: GERM 316 and GERM 401.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 576 German Literature from 1890-Present 3 H
(OLD) Readings and discussions in German of selected literary works of the twentieth century. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 483 Literature and Culture of German-Speaking Europe 1918-Present 3 H
(NEW) Exploration of literature within the framework of major cultural movements and historical, political, and economic change. Prerequisites: GERM 316 and GERM 401.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 588 Deutsche Kulturkunde I 3 H
(OLD) A study of the development of German culture with emphasis on life, customs, geography, art, music, and literature, from its beginnings to 1810. Readings and discussions in German and English. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 411 German Culture 1150-1750 3 H
(NEW) Exploration of major cultural periods and movements within the framework of historical and political change, with investigation of themes such as nation and national identity, founding myths, geography, and language. Study of forms of culture in German-speaking Europe, including visual art, music, literature, architecture, and the press. Prerequisites: GERM 316 and GERM 401.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 590 Deutsche Kulturkunde II 3 H
(OLD) A study of the development of German culture with emphasis on life, customs, geography, art, music, and literature, from 1810 to the present. Readings and discussions in German and English. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 412 German Culture 1750-Present 3 H
(NEW) Exploration of major cultural periods and movements 1750-present within the framework of historical and political change, with investigation of themes such as nation and national identity,
foundating myths, geography, and language. Study of forms of culture in German-speaking Europe, including visual art, music, literature, architecture, and the press. Prerequisites: GERM 316 and GERM 401.

CHANGE: DELETE COURSE
GERM 604 INTRODUCTION TO THE GERMANIC LANGUAGES  3  H
A study of the development and distribution of the Germanic languages, with emphasis on the modern linguistic features of the major members of the language family. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER AND TITLE
GERM 608 GERMAN LITERATURE FROM THE BEGINNING TO 1750  3  H
(OLD) Readings and discussions in German of selected literary works of the medieval and early modern periods. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 480 LITERATURE AND CULTURE OF GERMAN-SPEAKING EUROPE 1150-1750  3  H
(NEW) Exploration of medieval and early modern literature within the framework of major cultural movements and historical, political, and economic change. Prerequisite: GERM 316 and GERM 401.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND NUMBER
GERM 653 INVESTIGATION AND CONFERENCE  1-3  H
(OLD) Independent study and directed reading on special topics. Permission of the instructor who will supervise the student is required. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 579 INVESTIGATION AND CONFERENCE  1-3  H
(NEW) Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work required. Prerequisites: GERM 316 and GERM 401.

GLOBAL & INTERNATIONAL STUDIES

CHANGE: NEW COURSE
FARS 310 ADVANCED FARSI I  3  U
Enhancement of speaking, comprehension, reading and writing abilities in Farsi. Readings from Farsi literature introduced. Prerequisite: FARS 220 or placement exam that establishes a level of proficiency in Farsi suited to Advanced Farsi I.

CHANGE: NEW COURSE
FARS 320 ADVANCED FARSI II  3  U
Enhancement of speaking, comprehension, reading and writing abilities in Farsi. Readings from Farsi literature introduced. Prerequisite: FARS 310 or placement exam that establishes a level of proficiency in Farsi suited to Advanced Farsi II.

CHANGE: NEW COURSE
GIST 684 INTERNATIONAL LAW: THE STATE AND THE INDIVIDUAL  3  S
International law has assumed an increasingly significant role in international life. This course examines major issues in international law including (but not limited to): the changing status and role of the state; rights of minorities and self-determination; the environment; and human rights. The course examines the central questions and the relevant international legal principles associated with each issue. Prerequisite: POLS 170.
CHANGE: NEW COURSE

GIST 685 INTERNATIONAL LAW: LAWS OF ARMED CONFLICT 3 S
This course examines the principles, roles, and functions of international law in the conduct of war. As the course reviews the development and application of the basic rules of armed conflict, several current issues and conflicts are addressed including: the legitimate use of force; the proper definitions of combatants and civilians; actions that constitute war crimes, the legality of new weapons technology, and, if the laws of armed conflict apply to the current "war on terrorism."
Prerequisite: POLS 170.

HISTORY OF ART

CHANGE: NEW CROSS-LISTED COURSE

HA 536 ISLAMIC ART AND ARCHITECTURE IN AFRICA 3.0 H
Study of Islamic art and architecture in various cultural and geographical settings, from the first mosques of North African and the Swahili coast to contemporary Islamized masquerades in West Africa. We consider art objects and architectural sites in terms of religious practice, trade and commerce, ritual and political power, and contemporary expression. Prerequisite: AAAS 102, AAAS 103, HA 100, or HA 150; or permission of instructor. (Same as AAAS 536) LEC

HISTORY

CHANGE: COURSE DESCRIPTION TITLE CREDIT NUMBER COURSE IS CURRENTLY CROSSTLISTED

HIST 141 GLOBAL ENVIRONMENT I: INTERDISCIPLINARY LABORATORY 2 U
(OLD) This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. To be taken with HIST 140. (Same as GEOG 141 and EVRN 141.) LAB

HIST 144 GLOBAL ENVIRONMENT I: THE DISCOVERY OF ENVIRONMENTAL CHANGE, HONORS 5 U
(NEW) This interdisciplinary course surveys the foundations of environmental understanding and the process of scientific discovery from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the history of environmental systems and life on earth, the discovery of biotic evolution, ecological change, and climate change. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to earth systems and the development of environmental understanding using historical and present-day examples. (Same as GEOG 144 and EVRN 144.) Open only to students admitted to the University Honors Program or by permission of instructor. LEC/LAB

CHANGE: COURSE DESCRIPTION CREDIT COURSE IS CURRENTLY CROSSTLISTED

HIST 142 GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION 3 U
(OLD) This interdisciplinary course and its laboratory (HIST 143) survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. To be taken with HIST 143. (Same as GEOG 142 and EVRN 142.) LEC Prerequisite:

HIST 142 GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION 5 U
(NEW) This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and
culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as EVRN 142 and GEOG 142)

CHANGE: COURSE DESCRIPTION

HIST 143 GLOBAL ENVIRONMENT II: INTERDISCIPLINARY LABORATORY 2 H
(OLD)
This laboratory applies the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. To be taken with HIST 142. (Same as GEOG 143 and EVRN 143) LAB

HIST 145 GLOBAL ENVIRONMENT II: THE ECOLOGY OF HUMAN CIVILIZATION, HONORS 5 H
(NEW)
This interdisciplinary course and its laboratory sections survey the history of humanity's relationship with the natural world over the long term from perspectives that combine the principles and methodologies of the humanities, physical, life and social sciences. Key topics will include the evolution of Homo sapiens and cultural systems; the development of hunter, gatherer, fisher, agricultural, and pastoral lifeways; the ecology of colonialism and industrial civilization, and the emergence of ideological and ethical perspectives on the relationship between nature and culture. Laboratory sections apply the principles and methodologies of the humanities, physical, life and social sciences to the humanity's engagement with the global environment using historical and present-day examples. LEC/LAB (same as EVRN 145 and GEOG 145) Open only to students in the University Honors Program or by permission of instructor.

CHANGE: COURSE DESCRIPTION

HIST 327 THE PREMODERN MIDDLE EAST 3 H
(OLD)
A survey of the history of the Middle East from the origins of Islam in the sixth century to the rise and consolidation of the Ottoman Empire in the eighteenth century. Topics include the life of Muhammad, the history of sectarianism in early Islamic history, the formation of the Caliphate and the Islamic empires, cultural, religious, and intellectual trends in the medieval period, and the Mongol invasion and rise of Turkic influence. LEC

HIST 327 THE PREMODERN MIDDLE EAST 3 H
(NEW)
A survey of the history of the Middle East from the origins of Islam in the seventh century to the rise and consolidation of the Ottoman Empire in the eighteenth century. Lectures and discussions focus on diversity within the Middle East at the height of the Islamic empires. Topics include the life of Muhammad and early Islamic communities, expansion of Islam into Asia, Africa and Europe, intellectual strength in the medieval period, and the everyday lives of women, Christians, Jews and other minority groups. LEC

CHANGE: COURSE DESCRIPTION

HIST 328 THE MODERN MIDDLE EAST 3 H
(OLD)
A survey of the Middle Eastern history from 1800 to the present. Topics include the integration of the Ottoman Empire into the world economic system, early efforts of defensive modernization, European imperial influence, cultural and intellectual trends in the nineteenth century, World War I and the formation of the modern state system, the origins and spread of nationalism, social change in the twentieth century, the challenge of Islamic social movements, and the Arab-Israeli conflict. LEC

HIST 328 THE MODERN MIDDLE EAST 3 H
(NEW)
A survey of the history of the Middle East from 1800 to the present. Lectures and discussions focus on diversity within the Middle East over two centuries of major political and cultural change. Topics include causes for the decline of the Ottoman Empire, debates over modernization, European imperialism and the formation of nation-states, twentieth century cultural revolutions and women's activism, the Arab-Israeli conflict, and the revival of Islamic social movements. LEC

CHANGE: NEW COURSE

HIST 367 MAGIC AND SUPERSTITION IN EUROPEAN HISTORY 3 H
This course traces the changing role and understanding of magic in European culture, religion, politics and science from the late Middle Ages through the early 20th century. Topics may include alchemy, miracles, magical healing, witchcraft, monsters and demonic possession.

CHANGE: NEW COURSE
HIST 480 TRAVELERS’ TALES OF THE MIDDLE EAST 3 H
This reading-intensive seminar examines the multiple visions of "the Orient" that appeared in the letters, memoirs, and novels of Western travelers to the Middle East in the nineteenth and twentieth centuries. We examine the rise of tourism and travel-writing within the Middle East and their links to European imperialism. Working closely with primary source documents, we question what these highly personal and often misinformed types of writing can tell us about the politics and culture of everyday life in the Middle East.

CHANGE: NEW CROSS-LISTED COURSE
HIST 626 MEN AND MASCULINITIES 3 H
An intensive examination of the history and theory of masculinities in the Western world. Students become acquainted with some of the key theories of men and masculinities, and develop research projects on a topic negotiated with the instructor. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as HWC 570, WGSS 570) LEC

CHANGE: NEW CROSS-LISTED COURSE
HIST 625 BODY, SELF AND SOCIETY 3 H
An intensive examination of the role of the human body in the creation of personal and social identities in the Western world. Students become acquainted with contemporary theories of embodiment and the senses as they are applied to a variety of historical themes, and develop research projects on a topic negotiated with the instructor. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as HWC 575, WGSS 575) LEC

CHANGE: COURSE DESCRIPTION AND TITLE
HIST 565 IMPERIAL RUSSIA AND THE SOVIET UNION 3 H
(OLD) The influence of the West and Marxism upon the institutional structure and international position of Russia. LEC

HIST 565 IMPERIAL RUSSIA 3 H
(NEW) The history of Imperial Russia from Peter the Great's reinvention of the empire in the eighteenth century to its demise in the revolutions of 1917. Placing Russia in a global context, the course examines change and continuity in politics, society, economy, and culture and looks at Russia as a diverse empire between Europe and Asia. Readings include historical scholarship and some of the classics of Russian literature.

CHANGE: COURSE DESCRIPTION AND TITLE
HIST 568 RUSSIA IN THE 20TH CENTURY AND BEYOND 3 H
(OLD) A course designed to provide an understanding of change and continuity in Russian history and society with an emphasis on the distinctive factors and characteristics of the peoples that led to the rise and fall of the Soviet Union. LEC

HIST 568 THE RISE AND FALL OF THE SOVIET UNION, 1917 TO THE PRESENT 3 H
(NEW) An exploration of the Soviet Union's creation, evolution, collapse, and legacy in contemporary Russia and Eurasia. Drawing on historical scholarship, literature, music, and film, the course examines the major trends and developments in Soviet politics, ideology, society, economy, and culture. Special attention is paid to how the multiethnic Soviet state's rise and fall reflected broader changes in the world during the "Soviet century."

CHANGE: COURSE DESCRIPTION AND TITLE
HIST 570 THE MIDDLE EAST SINCE WORLD WAR II 3 H
An intensive study of developments and changes in the Middle East since World War II. Themes developed include the end of British and French ascendancy, fundamental transformation of the structure of Middle Eastern states and politics, oil and the energy crisis, American and Russian policies and interests, old and new problems—e.g., the Straits, Suez Canal, Kurds, the Persian Gulf. (Not closed to those who have taken HIST 569, nor is HIST 569 necessary for HIST 570.) No prerequisite. LEC

HIST 570 THE MIDDLE EAST AFTER WORLD WAR II 3 H
An intensive study of developments and changes in the Middle East since World War II. Topics and themes will vary, but may include the long-lasting effects of European imperialism, Big Oil and the energy crisis, the Arab-Israeli conflict and peace process, American intervention in the Middle East, minority communities, and the revival of Islamic and popular protest movements.

CHANGE: COURSE DESCRIPTION
HIST 670 COMPARATIVE DIASPORAS 3 H
This course considers various theories of diaspora (including whether the Jewish experience should be considered a model for diaspora culture), as well as several of the most prominent "new diasporic" formation in the modern period, such as the Black Atlantic, South and East Asian diasporas, and the Romani (or "Gypsies"). Our study of these diasporas helps us to rethink relations among politics, territory and identity in our time. We consider the way rhetorics of collective memory and ethnohistory contribute to the maintenance of group identities outside the homeland. Our focus on diasporas also helps us to gain a clearer sense of the historical origins, and the possible futures of nation-states as the basic building blocks of human polity. LEC

HIST 670 COMPARATIVE DIASPORAS 3 H
This course examines history from the point of view of diasporas, groups who move across established borders but maintain an identity linked to an original homeland. This course examines commonalities and differences in the diaspora experience by looking comparatively at a range of prominent cases, including the Jewish, African, Armenian, Greek, Turkish, German, Irish, Italian, South Asian, and Chinese diasporas, the "Gypsies," and the internal diasporas of multiethnic states like Russia. The course also gives students the opportunity to pursue research on a diaspora of their own choosing.

HUMANITIES & WESTERN CIVILIZATION

CHANGE: TITLE
HWC 302 EUROPEAN CULTURE AND SOCIETY 1945 TO PRESENT: DECLINE OF MODERNITY AND RISE OF POSTMODERNISM 03 H
This course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. The course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as EURS 302) HT/H

HWC 302 EUROPEAN SOCIETY AND CULTURE 1945-PRESENT 03 H
This course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. This course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as EURS 302) HT/H

CHANGE: COURSE DESCRIPTION TITLE
HWC 424 SENIOR SEMINAR IN HUMANITIES & WESTERN CIVILIZATION 03 H
A seminar to result in a senior thesis in the student's area of emphasis in the major. Course includes seminar meetings and individual conferences with the instructor for guidance on topic selection, identification of a project director, investigation of resources, and instruction in writing strategies and documentation styles. Project proposal, completed thesis, and oral presentation required. Required of all students majoring in Humanities and Western Civilization. Not open to
freshmen and sophomores; recommended in the senior year. Prerequisite: HWC 420 for students in the Humanities emphasis, and in Humanities and Literature emphasis, HWC 430 for students in the Western Civilization emphasis. IND

**HWC 424**  
**SENIOR SEMINAR IN HUMANITIES 03 H**  
A seminar to result in the student's integration of knowledge within the Humanities major. Students undertake a project that reflects and utilizes the interdisciplinary perspectives of the humanities. Options for the final project include a portfolio, web page, or significant writing project. Not open to freshmen and sophomores; recommended in the senior year. Prerequisite: completion of at least 9 hours of upper division courses in the major.

**CHANGE: NEW COURSE**

**HWC 436**  
**ISLAM IN EUROPE, HONORS 03 H**  
Investigation of Muslim migration into Europe and day-to-day interactions of Muslims with other European populations. This is an integrated study of historical, political, religious and economic influences that determine Muslim experience in contemporary European culture. Prerequisite: Membership in the University Honors Program or permission of department. Not open to students who have completed EURS/HWC 435. LEC

**CHANGE: COURSE DESCRIPTION**

**TITLE**

**HWC 494**  
**HUMANITIES AND WESTERN CIVILIZATION-DIRECTED STUDY 1-3 H**  
Investigation of a subject in fields or on topics not covered in regularly scheduled courses. May be repeated for a total of 6 hours. Does not replace or satisfy specific course requirements for the Humanities and Western Civilization major. May be counted as part of the total junior-senior credit hours required.

**HWC 494**  
**HUMANITIES--DIRECTED STUDY 1-3 H**  
Investigation of a subject in fields or on topics not covered in regularly scheduled courses. May be repeated for a total of 6 hours. Does not replace or satisfy specific course requirements for the Humanities major. May be counted as part of the total junior-senior credit hours required.

**CHANGE: COURSE DESCRIPTION AND NEW REQUEST TO CROSSLIST**

**HWC 570**  
**MEN AND MASCULINITIES 03 H**  
An intensive examination of the history and theory of masculinities in the Western world since the sixteenth century. Students will become acquainted with some of the key theories of men and masculinities, examine in depth the interplay between manhood and modernity, and develop research projects on a topic negotiated with the instructor. May be repeated if content varies sufficiently. (Same as WGSS 570) LEC Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as WGSS 570; HIST 626)

**HWC 570**  
**MEN AND MASCULINITIES 03 H**  
An intensive examination of the history and theory of masculinities in the Western world. Students become acquainted with some of the key theories of men and masculinities, and develop research projects on a topic negotiated with the instructor. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as WGSS 570; HIST 626)

**CHANGE: COURSE DESCRIPTION AND NEW REQUEST TO CROSSLIST**

**HWC 575**  
**BODY, SELF AND SOCIETY 03 H**  
An examination of the role of the human body in the creation of personal and social identities in the Western world. Students become acquainted with contemporary theories of embodiment and the senses as they are applied to a variety of historical themes, and develop
research projects on a topic negotiated with the instructor. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as WGSS 575; HIST 625) LEC

CHANGE: COURSE DESCRIPTION
PCS 120 INTRODUCTION TO PEACE AND CONFLICT STUDIES 3 H
(OLD)
An introduction to the content and methods of peace studies. Peace studies is a multidisciplinary and interdisciplinary approach to the study of war and peace. Building on and integrating the work of various fields of study, the course examines the causes of structural and direct violence within and among societies and the diverse ways in which humans have sought peace from conquest and balance of power to international organizations and nonviolent strategies. LEC

PCS 120 INTRODUCTION TO PEACE AND CONFLICT STUDIES 3 H
(NEW)
An introduction to the content and methods of peace studies. Peace studies is a multidisciplinary and interdisciplinary approach to the study of war and peace. Building on and integrating the work of various fields of study, the course examines the causes of structural and direct violence within and among societies and the diverse ways in which humans have sought peace, from conquest and balance of power to international organizations and nonviolent strategies. LEC

CHANGE: NEW COURSE
PCS 121 INTRODUCTION TO PEACE AND CONFLICT STUDIES--HONORS 3 H
An introduction to the content and methods of peace studies. Peace studies is a multidisciplinary and interdisciplinary approach to the study of war and peace. Building on and integrating the work of various fields of study, the course examines the causes of structural and direct violence within and among societies and the diverse ways in which humans have sought peace, from conquest and balance of power to international organizations and nonviolent strategies. Open only to students admitted to the University Honors Program or by permission of instructor. Not open to students who have completed PCS 120. LEC

KAQCHIKEL (IN THE CENTER FOR LATIN AMERICAN STUDIES)

CHANGE: NEW COURSE
KQKL 110 ELEMENTARY KAQCHIKEL MAYA I 3 U
An orientation to Kaqchikel Maya language and culture for beginning students. Includes elements of grammar, conversation, and composition. Kaqchikel is the first language of approximately 500,000 people of highland Guatemala and one of roughly 30 Mayan languages. LEC

CHANGE: NEW COURSE
KQKL 114 ELEMENTARY KAQCHIKEL MAYA II 3 U
Continuation of KQKL 110. Prerequisite: Completion of KQKL 110 or equivalent. LEC

CHANGE: NEW COURSE
KQKL 230 INTERMEDIATE KAQCHIKEL MAYA I 3 U
Continuation of KQKL 114. Prerequisite: Completion of KQKL 114 or equivalent. LEC

CHANGE: NEW COURSE
KQKL 234 INTERMEDIATE KAQCHIKEL MAYA II 3 U
Continuation of KQKL 230. Prerequisite: Completion of KQKL 230 or equivalent. LEC

LINGUISTICS

CHANGE: COURSE DESCRIPTION PREREQUISITE NUMBER TITLE
LING 322 LINGUISTIC TYPOLOGY 3 S
(OLD)
Different languages use different linguistic mechanisms to encode meanings. This course surveys grammatical concepts and categories found in the world's languages including tense, aspect, mood, voice, person and number, as well as case relations, such as nominative, accusative, ergative, and absolutive. Basic word order typology and discourse functions such as topic, focus, and cohesion are introduced. Examples will be drawn from a wide variety of languages to illustrate how the
same concept may be encoded differently, i.e., morphologically, syntactically, or lexically, in different languages. Prerequisite: An introductory course in linguistics. LEC

LING 421 CAPSTONE: TYPOLOGY - THE UNITY AND DIVERSITY OF HUMAN LANGUAGE 3 S (NEW) This course explores the similarities and differences among the worlds’ languages. Students apply their knowledge of phonetics, phonology, morphology, and syntax in describing and analyzing phenomena from a number of languages. The typological perspective that students develop is applied to topics such as word order, morphological typology, case, lexical categories, and valency. In addition to lecture style instruction, students get hands on practice in collecting, transcribing, and analyzing data from different languages through face to face elicitation with native speakers. Prerequisites: LING 305, LING 312, and LING 325.

CHANGE: COURSE DESCRIPTION PREREQUISITE TITLE
LING 420 RESEARCH METHODS IN LINGUISTICS 3 S (OLD) This course provides a foundation for designing, conducting, and critically evaluating quantitative and qualitative research in the language sciences. Topics include formulating a research hypothesis, participant selection, ethical considerations, the scientific method, validity, reliability, data collection, dependent and independent variables, descriptive and inferential statistics. This course serves students who are interested in the basics of research design and statistics for the study of language. Prerequisite: An introductory course in Linguistics. LEC

LING 420 CAPSTONE: RESEARCH IN LANGUAGE SCIENCE 3 S (NEW) This course provides a foundation for designing, conducting, and critically evaluating quantitative and qualitative research in the language sciences. Topics include formulating a research hypothesis, participant selection, ethical considerations, the scientific method, dependent and independent variables, data collection, descriptive and inferential statistics. Students apply their knowledge of linguistics to formulate a research hypothesis and design an experiment to evaluate this hypothesis. Prerequisites: LING 305, LING 312, LING 325, and either LING 415, 425, 435, or 438. LEC

CHANGE: COURSE DESCRIPTION
LING 447 NORTH AMERICAN INDIAN LANGUAGES 3 S (OLD) Introduction to the nature and distribution of North American Indian languages. Not open to students with credit in LING 747. Students taking this course at the 700 level will have different course requirements. Prerequisite: An introductory course in linguistics. LEC

LING 447 NORTH AMERICAN INDIAN LANGUAGES 3 S (NEW) This course introduces students to the indigenous languages of North America. Students critically examine the structures and status of these languages, which have greatly expanded our knowledge of human language and linguistic theory. Topics include the history and future of North American languages and indigenous speech communities, the history of the field of Americanist linguistics, as well as important linguistic questions raised by phenomena from American languages in phonology, morphology, syntax, semantics, and historical linguistics. Prerequisite: An introductory course in linguistics. Not open to students enrolled in 747. LEC

PHILOSOPHY

CHANGE: NEW COURSE
PHIL 557 KANT 3 H A survey of the major works of Immanuel Kant, with attention to his critical method and its application to issues in theoretical philosophy, practical philosophy, aesthetics, or the philosophy of history. Prerequisite: PHIL 386. LEC

PHYSICS

CHANGE: NEW COURSE
PHSX 216 GENERAL PHYSICS I LABORATORY 1 N Experiments in classical mechanics and thermodynamics. Counts as a laboratory science when accompanied by PHSX 211. Pre- or Corequisite: PHSX 211. LAB
CHANGE: NEW COURSE
PHSX 236  GENERAL PHYSICS II LABORATORY  1  N
Experiments in electricity and magnetism, waves and sound. Pre- or Corequisite: PHSX 212. LAB

CHANGE: COURSE DESCRIPTION
PHSX 114  COLLEGE PHYSICS I  4  N
(OLD) Principles and applications of mechanics, fluids, heat, thermodynamics, and sound waves. Three class hours and one laboratory per week. This course emphasizes the development of quantitative concepts and problem solving skills for students needing a broad background in physics as part of their preparation in other major programs, and for those who wish to meet the laboratory science requirement of the College. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 211 or PHSX 212. Prerequisite: MATH 104, or three and one-half years of college-preparatory mathematics including trigonometry and a score of 25 or higher on ACT mathematics. LEC

PHSX 114  COLLEGE PHYSICS I  4  N
(NEW) Principles and applications of mechanics, fluids, heat, thermodynamics, and sound waves. Three class hours and one laboratory per week. This course emphasizes the development of quantitative concepts and problem solving skills for students needing a broad background in physics as part of their preparation in other major programs, and for those who wish to meet the laboratory science requirement of the College. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 211/PHSX 216 or PHSX 212/PHSX 236. Prerequisite: MATH 104, or three and one-half years of college-preparatory mathematics including trigonometry and a score of 25 or higher on ACT mathematics. LEC

CHANGE: COURSE DESCRIPTION
PHSX 115  COLLEGE PHYSICS II  4  N
(OLD) A continuation of PHSX 114. Principles and applications of electricity, magnetism, light, atomic physics, and nuclear physics. Three class hours and one laboratory per week. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 212. Prerequisite: PHSX 114. LEC

PHSX 115  COLLEGE PHYSICS II  4  N
(NEW) A continuation of PHSX 114. Principles and applications of electricity, magnetism, light, atomic physics, and nuclear physics. Three class hours and one laboratory per week. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 212/PHSX 236. Prerequisite: PHSX 114. LEC

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND CREDIT
PHSX 212  GENERAL PHYSICS II  1-4  N
(OLD) Study of electricity and magnetism, waves and sound. In special circumstances, permission to enroll for fewer than four hours credit may be obtained from the department. Students with credit in PHSX 115 can obtain only one hour of credit. Prerequisite: PHSX 211. Corequisite: MATH 122. LEC

PHSX 212  GENERAL PHYSICS II  1-3  N
(NEW) Study of electricity and magnetism, waves and sound. In special circumstances, permission to enroll for fewer than three hours credit may be obtained from the department. Students with credit in PHSX 115 can obtain only one hour of credit. Prerequisites: PHSX 211 and PHSX 216 or PHSX 213. Corequisite: MATH 122. LEC
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tr>
<td>PHSX 213</td>
<td>GENERAL PHYSICS I, HONORS</td>
<td>1-5 N</td>
<td>An honors section of PHSX 211. Credit for fewer than four hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Courses in high school physics and chemistry are strongly recommended. Prerequisite: MATH 121 and permission of instructor. LEC</td>
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<td>(NEW)</td>
<td>An honors section of PHSX 211 and PHSX 216. Credit for fewer than five hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Courses in high school physics and chemistry are strongly recommended. Prerequisite: MATH 121 and permission of instructor. LEC</td>
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<tr>
<td>PHSX 214</td>
<td>GENERAL PHYSICS II, HONORS</td>
<td>1-4 N</td>
<td>An honors section of PHSX 212. Credit for fewer than four hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Prerequisite: PHSX 211 or PHSX 213, and permission of instructor. Corequisite: MATH 122. LEC</td>
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<tr>
<td>(NEW)</td>
<td>An honors section of PHSX 212 and PHSX 236. Credit for fewer than four hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Prerequisite: PHSX 211 and PHSX 216, or PHSX 213, and permission of instructor. Corequisite: MATH 122. LEC</td>
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<tr>
<td>PHSX 313</td>
<td>GENERAL PHYSICS III</td>
<td>3 N</td>
<td>Introduction to modern physics. Topics include special relativity, optics, and introductions to quantum mechanics and solid state physics. Prerequisite: PHSX 212 or PHSX 214 or EECS 220. Corequisite: MATH 320 or MATH 220. LEC</td>
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<tr>
<td>(NEW)</td>
<td>Introduction to modern physics. Topics include special relativity, optics, and introductions to quantum mechanics and solid state physics. Prerequisite: PHSX 212 and PHSX 236 or PHSX 214 or EECS 220. Corequisite: MATH 320 or MATH 220. LEC</td>
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<tr>
<td>PHSX 521</td>
<td>MECHANICS I</td>
<td>3 N</td>
<td>Newton's laws of motion. Motions of a particle in one, two, and three dimensions. Motion of a system of particles. Moving coordinate systems. (Same as EPHX 521.) Prerequisite: PHSX 211 or PHSX 213, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC</td>
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| (NEW)       | MECHANICS I | 3 N | }
Newton's laws of motion. Motions of a particle in one, two, and three dimensions. Motion of a system of particles. Moving coordinate systems. (Same as EPHX 521.) Prerequisite: PHSX 211 and PHSX 216, or PHSX 213; MATH 223; MATH 290; and MATH 220 or MATH 320. LEC

CHANGE: PREREQUISITE

PHSX 528 GEODYNAMICS AND PLATE TECTONICS 3 N
(OLD) Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global tectonics. (Same as GEOL 573) Prerequisite: An introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212 or PHSX 214. LEC

PHSX 528 GEODYNAMICS AND PLATE TECTONICS 3 N
(NEW) Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global tectonics. (Same as GEOL 573) Prerequisite: An introductory course in geology; MATH 116 or MATH 122; and PHSX 115, PHSX 214 or PHSX 212 and PHSX 236. LEC

CHANGE: PREREQUISITE

PHSX 531 ELECTRICITY AND MAGNETISM 3 N
(OLD) The properties of electric and magnetic fields, including electrostatics, Gauss' Law, boundary value methods, electric fields in matter, electromagnetic induction, magnetic fields in matter, the properties of electric and magnetic dipoles, and of dielectric and magnetic materials. (Same as EPHX 531.) Prerequisite: PHSX 212 or PHSX 214, PHSX 521 or special permission, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC

PHSX 531 ELECTRICITY AND MAGNETISM 3 N
(NEW) The properties of electric and magnetic fields, including electrostatics, Gauss' Law, boundary value methods, electric fields in matter, electromagnetic induction, magnetic fields in matter, the properties of electric and magnetic dipoles, and of dielectric and magnetic materials. (Same as EPHX 531.) Prerequisite: PHSX 214, or PHSX 212 and PHSX 236; PHSX 521 or special permission; MATH 223; MATH 290; and MATH 220 or MATH 320. LEC

CHANGE: PREREQUISITE

PHSX 536 ELECTRONIC CIRCUIT MEASUREMENT AND DESIGN 4 N
(OLD) A laboratory course that explores the theory and experimental techniques of analog and digital electronic circuit design and measurements. Topics include transient response, transmission lines, transistors, operational amplifiers, and digital logic. (Same as EPHX 536.) Prerequisite: PHSX 212 or PHSX 214, MATH 223 and MATH 290. PHSX 313 and 316 recommended. LAB

PHSX 536 ELECTRONIC CIRCUIT MEASUREMENT AND DESIGN 4 N
(NEW) A laboratory course that explores the theory and experimental techniques of analog and digital electronic circuit design and measurements. Topics include transient response, transmission lines, transistors, operational amplifiers, and digital logic. (Same as EPHX 536.) Prerequisite: PHSX 214 or PHSX 212 and PHSX 236; MATH 223; and MATH 290. PHSX 313 and 316 recommended. LAB

CHANGE: PREREQUISITE

PHSX 623 PHYSICS OF FLUIDS 3 N
(OLD) An introduction to basic fluid mechanics in which fundamental concepts and equations are covered. Topics include hydrostatics, hydrodynamics, wave propagation in fluids, and applications in the areas such as astrophysics, atmospheric physics, and geophysics. (Same as EPHX 623.) Prerequisite: PHSX 212 or PHSX 214, MATH 223, and MATH 290. LEC

PHSX 623 PHYSICS OF FLUIDS 3 N
An introduction to basic fluid mechanics in which fundamental concepts and equations are covered. Topics include hydrostatics, hydrodynamics, wave propagation in fluids, and applications in the areas such as astrophysics, atmospheric physics, and geophysics. (Same as EPHX 623.) Prerequisite: MATH 223; MATH 290; PHSX 212 and PHSX 236 (or PHSX 214 can replace PHSX 212 and PHSX 236). LEC

CHANGE: PREREQUISITE

PHSX 641 INTRODUCTION TO NUCLEAR PHYSICS 3 N
(OLD) Experimental methods and elementary concepts in nuclear physics, including nuclear forces, alpha and beta decay, gamma radiation, nuclear structure, and reaction systematics. (Same as EPHX 641.) Prerequisite: PHSX 313 and PHSX 611. LEC

PHSX 641 INTRODUCTION TO NUCLEAR PHYSICS 3 N
(NEW) Experimental methods and elementary concepts in nuclear physics, including nuclear forces, alpha and beta decay, gamma radiation, nuclear structure, and reaction systematics. (Same as EPHX 641.) Prerequisite: PHSX 313 and PHSX 511. LEC

CHANGE: PREREQUISITE

PHSX 671 THERMAL PHYSICS 3 N
(OLD) Development of thermodynamics from statistical considerations. Techniques of calculating thermodynamic properties of systems. Application to classical problems of thermodynamics. Elementary kinetic theory of transport processes. Fermi-Dirac and Bose-Einstein systems. (Same as EPHX 671.) Prerequisite: PHSX 611. LEC

PHSX 671 THERMAL PHYSICS 3 N
(NEW) Development of thermodynamics from statistical considerations. Techniques of calculating thermodynamic properties of systems. Application to classical problems of thermodynamics. Elementary kinetic theory of transport processes. Fermi-Dirac and Bose-Einstein systems. (Same as EPHX 671.) Prerequisite: PHSX 511. LEC

QUICHUA (IN THE CENTER FOR LATIN AMERICAN STUDIES)

CHANGE: NEW COURSE

KICH 110 ELEMENTARY QUICHUA I 3 U
An orientation to Ecuadorian Quichua language and culture for beginning students. Includes elements of grammar, conversation, and composition. Quichua (a.k.a. Kechwa, Quechua, Kechua, Ketchua, Kichwa, Khetchua, or Runa Ximi) in its various forms is an indigenous language spoken by over six million people in Ecuador, Peru and Bolivia combined. LEC

CHANGE: NEW COURSE

KICH 114 ELEMENTARY QUICHUA II 3 U
Continuation of KICH 110. Prerequisites: KICH 110 or equivalent. LEC

CHANGE: NEW COURSE

KICH 230 INTERMEDIATE QUICHUA I 3 U
Continuation of KICH 114. Prerequisites: KICH 114 or equivalent. LEC

CHANGE: NEW COURSE

KICH 234 INTERMEDIATE QUICHUA II 3 U
Continuation of KICH 230. Prerequisite: KICH 230 or equivalent. LEC

RELIGIOUS STUDIES

CHANGE: NEW COURSE

REL 365 HINDUISM 3 H
An introduction to the diversity and richness of Hinduism from the Vedic period to the present; explores Hindu practices, beliefs, and communities using primary texts and extensive audio-visual resources.
REL 311  HEBREW SCRIPTURES (OLD TESTAMENT IN ENGLISH)  3 H
(OLD) A study of the development of the Hebrew Bible from its earliest stages of oral tradition to its
canonization with an emphasis on the relationship of the historical, intellectual, and cultural
contexts shaping that development. Prerequisite: REL 124 or permission of instructor. LEC

REL 311  RELIGION OF ANCIENT ISRAEL  3 H
(NEW) An introduction to the religion of ancient Israel through examination of biblical texts and
archaeological evidence. Emphasis is placed on understanding the texts of the Hebrew Bible (Old
Testament) in their historical and cultural contexts, including the relationship of their religious
views to other religious perspectives current in ancient Israel and the Near East. Attention is given
to the processes by which the biblical texts developed and came to be viewed as scripture.

RUSSIAN & EAST EUROPEAN & EURASIAN STUDIES

CHANGE: NEW COURSE
TAJ 310  ADVANCED TAJIK I  3 U
Enhancement of speaking, comprehension, reading and writing abilities in Tajik. Readings from
Tajik literature introduced. Prerequisite: TAJ 220 or placement exam that establishes a level of
proficiency in Tajik suited to Advanced Tajik I.

CHANGE: NEW COURSE
TAJ 320  ADVANCED TAJIK II  3 U
Enhancement of speaking, comprehension, reading and writing abilities in Tajik. Readings from
Tajik literature introduced. Prerequisite: TAJ 220 or placement exam that establishes a level of
proficiency in Tajik suited to Advanced Tajik II.

SOCIOLOGY

CHANGE: NEW COURSE
SOC 590  SOCIOLOGY IN THE COMMUNITY  3 S
The purpose of this course is to encourage students to develop their understanding of the
relationship between individual biography and social organization while they contribute to their
community by working as volunteers in non-profit community or campus organizations. Not
open to students who have completed SOC 490. Prerequisites: Sociology 310 and 510.

CHANGE: COURSE DESCRIPTION NUMBER
SOC 624  SOCIOLOGY OF HEALTH AND MEDICINE  3 S
(OLD) An introduction to medical sociology. Examination of social influences on illness and disease, the
seeking of medical help, playing the sick role, and epidemiology; sociological theory and research
on medical and health-care occupations, hospitals, medical technologies; and drug treatment, rural
health, patient advocacy, and other contemporary issues. LEC An introduction to medical
sociology. Examination of social influences on illness and disease, the seeking of medical help,
playing the sick role, and epidemiology; sociological theory and research on medical and health-
care occupations, hospitals, medical technologies; and drug treatment, rural health, patient
advocacy, and other contemporary issues. LEC

SOC 424  SOCIOLOGY OF HEALTH AND MEDICINE  3 S
(NEW) This introductory course in medical sociology examines how social factors influence health and
the organization of medical services. Students explore the distribution and experiences of illnesses
across key social categories (e.g., gender, social class, etc.) The course also addresses
contemporary issues in health and medicine, such as how health care systems vary cross-
nationally, the training of health care workers, patient-physician relationships, and the use of
medical technologies.
CHANGE: COURSE DESCRIPTION

SOC 490 INTERNSHIP IN SOCIOLOGY 3 S
(OLD) The purpose of this course is to encourage students to think sociologically about social issues by working as volunteer interns for non-profit community or campus organizations. Enrollment must be approved by the departmental Undergraduate Studies Committee. See the department's Director of Undergraduate Studies for guidelines. Prerequisite: 21 credits in sociology with a 3.0 GPA and permission of the instructor. FLD

SOC 490 INTERNSHIP IN SOCIOLOGY 3 S
(NEW) The purpose of this course is to encourage students to think sociologically about social issues by working as volunteer interns for non-profit community or campus organizations. Enrollment must be approved by the departmental Undergraduate Studies Committee in the semester prior to participation in the internship. See the department's Director of Undergraduate Studies for guidelines. Not open to students who have completed SOC 590. Prerequisite: 21 credits in sociology with a 3.0 GPA and permission of the instructor and department. FLD

CHANGE: NEW COURSE

SPLH 497 MENTORED RESEARCH EXPERIENCE 2-8 S
Study may be directed toward either reading for integration of knowledge and insight in Speech-Language-Hearing, or original research in the field. Student creates a plan of activities at the beginning of each semester under the mentor's guidance. Student and mentor review this plan at the end of each semester to evaluate progress. In the final semester of enrollment, student must complete a written report or a public oral presentation detailing the purpose, methods, results, and impact of the research. This final product partially meets the requirements for Research Experience Certification. (Eight hours maximum credit, which may be distributed through 4 semesters. No student may enroll for less than two hours credit or more than 4 hours of credit in a given semester). Prerequisite: consent of Departmental Research Experience Coordinator

CHANGE: COURSE DESCRIPTION

SPLH 498 HONORS SEMINAR 2-8 S
(OLD) (Eight hours maximum credit, which may be distributed through four semesters. No student may enroll for less than two hours credit.) Study may be directed toward either reading for integration of knowledge and insight in Speech-Language-Hearing: Sciences and Disorders, or original research, i.e., a specific problem in the field. Student must complete a written report at the end of each semester detailing the work on their project during the semester. Prerequisite: Consent of Departmental Honors Coordinator. IND

SPLH 498 DEPARTMENTAL HONORS RESEARCH 2-8 S
(NEW) Study may be directed toward either reading for integration of knowledge and insight in Speech-Language-Hearing, or original research in the field. Student creates a plan of activities at the beginning of each semester under the mentor's guidance. Student and mentor review this plan at the end of each semester to evaluate progress. In the final semester of enrollment, student must complete a written report or a public oral presentation detailing the purpose, methods, results, and impact of the research. This final product partially fulfills the requirements for Departmental Honors. (Eight hours maximum credit, which may be distributed through 4 semesters. No student may enroll for less than two hours credit or more than 4 hours of credit in a given semester). Prerequisite: consent of Departmental Honors Coordinator

CHANGE: COURSE DESCRIPTION

SPLH 499 DIRECTED STUDY IN SPEECH-LANGUAGE-HEARING 1-3 S
(OLD) (A maximum of six hours of credit may be counted, with not more than four in a single area of study.) Investigation of a special topic or project selected by the student with advice, approval, and supervision of an instructor. Such study may take the form of directed reading or special research. Individual reports and conferences. (Distribution credit given for two-three hours only.) Prerequisite: Consent of instructor. IND
SPLH 499  DIRECTED STUDY IN SPEECH-LANGUAGE-HEARING  1-3 S
(NEW) Investigation of special topic or project selected by the student with advice, approval, and supervision of an instructor. Such study may take the form of directed reading and/or directed research/clinical observation. Individual reports and conferences. (Distribution credit given for two-three hours only.) A maximum of six hours of credit may be counted, with not more than four in a single area of study.) Prerequisite: consent of instructor.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE
SPLH 660  RESEARCH METHODS IN SPEECH-LANGUAGE-HEARING  3 S
(OLD) An introduction to basic concepts of scientific methodology and of statistical and psychophysical measurement. Study of the application of these concepts to research in speech, language, and hearing. The complimentary nature of the research process and the clinical process will be emphasized. Graduate students who take this course must complete additional requirements. An introduction to basic concepts of scientific methodology and of statistical and psychophysical measurement. Study of the application of these concepts to research in speech, language, and hearing. The complimentary nature of the research process and the clinical process will be emphasized. Graduate students who take this course must complete additional requirements.

SPLH 660  RESEARCH METHODS IN SPEECH-LANGUAGE-HEARING  3 S
(NEW) Research Methods is about the methods used to conduct, describe and evaluate science in communication disorders. Goals for learner outcomes include: 1) evaluation of research including adequacy of research to address scientific and clinical problems, 2) reading, summarizing and describing research through a literature review, 3) describing a hypothetical research study that addresses a specific question or hypothesis identified by the student, and 4) providing constructive peer reviews of research paper drafts. Prerequisite: 9 credits of SPLH course work; English 101 and 102 (or course meeting core skill in written communication); or consent of instructor.

UKRANIAN (IN THE DEPARTMENT OF SLAVIC LANGUAGES AND LITERATURES)

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND TITLE AND CREDIT
UKRA 512  INTENSIVE UKRAINIAN LANGUAGE I  5 H
(OLD) A practical Ukrainian language course involving advanced study of the grammar and reading of texts on a variety of subjects, conversation, and composition. Taught in Ukrainian. Prerequisite: Three years of another Slavic language or permission of instructor. LEC.

UKRA 512  INTENSIVE UKRAINIAN LANGUAGE AND CULTURE I  3 H
(NEW) A practical Ukrainian language course involving advanced study of the grammar, conversation, composition. Reading of texts on a variety of subjects (culture, literature, history, folklore etc.), Taught in Ukrainian. Prerequisite: Three years of a Slavic language or permission of instructor. LEC.

CHANGE: COURSE DESCRIPTION AND PREREQUISITE AND TITLE AND CREDIT
UKRA 516  INTENSIVE UKRAINIAN LANGUAGE II  5 H
(OLD) A practical Ukrainian language course involving advanced study of the grammar and reading of texts on a variety of subjects, conversation, and composition. Taught in Ukrainian. Prerequisite: Three years of another Slavic language or permission of instructor. LEC. Prerequisite:

UKRA 516  INTENSIVE UKRAINIAN LANGUAGE AND CULTURE II  3 H
(NEW) A practical Ukrainian language course involving advanced study of the grammar, conversation, composition. Reading of texts on a variety of subjects (culture, literature, history, folklore etc.), Taught in Ukrainian. Prerequisite: Three years of a Slavic language or permission of instructor. LEC.

VISUAL ART
CHANGE: NEW COURSE
ART 310 BUILD SMART 3 U
Introduction to the experience and culture of building projects by hand. Students analyze and determine the best ways to build. Students also become familiar with tools, machines, building practices and material necessary for wood and steel fabrication. Prerequisite: ART 103, ART 104, or permission of the instructor.

CHANGE: CREDIT
ART 540 PROFESSIONAL ACTIVITIES SEMINAR 1
(OLD) Comprehensive development of skills and strategies needed to pursue a career as a professional studio artist. Graded on satisfactory/unsatisfactory basis. Prerequisite: Twenty-four hours of departmental electives or permission of instructor. LEC

ART 540 PROFESSIONAL ACTIVITIES SEMINAR 3
(NEW) Comprehensive development of skills and strategies needed to pursue a career as a professional studio artist. Graded on satisfactory/unsatisfactory basis. Prerequisite: Twenty-four hours of departmental electives or permission of instructor. LEC

CHANGE: CREDIT
ART 695 DIRECTED STUDY I 4-5
(OLD) Individual studio activity under direction of faculty advisor; capstone experience. Prerequisite: Thirty hours of departmental electives, consent of department, and permission of instructor. IND

ART 695 DIRECTED STUDY I 3
(NEW) Individual studio activity under direction of faculty advisor; capstone experience. Prerequisite: Thirty hours of departmental electives, consent of department, and permission of instructor. IND

CHANGE: CREDIT
ART 696 DIRECTED STUDY II 5
(OLD) Continuation of ART 695; capstone experience. May be repeated for credit in subsequent semesters. Prerequisite: ART 695 and permission of instructor. IND

ART 696 DIRECTED STUDY II 4
(NEW) Continuation of ART 695; capstone experience. May be repeated for credit in subsequent semesters. Prerequisite: ART 695 and permission of instructor. IND

WOMEN, GENDER, & SEXUALITY STUDIES

CHANGE: COURSE DESCRIPTION AND NEW REQUEST TO CROSSLIST COURSE IS CURRENTLY CROSSLISTED.
WGSS 570 MEN AND MASCULINITIES 3 H
(OLD) An intensive examination of the history and theory of masculinities in the Western world since the sixteenth century. Students will become acquainted with some of the key theories of men and masculinities, examine in depth the interplay between manhood and modernity, and develop research projects on a topic negotiated with the instructor. May be repeated if content varies sufficiently. (Same as HWC 570) LEC

WGSS 570 MEN AND MASCULINITIES 3 H
(NEW) An intensive examination of the history and theory of masculinities in the Western world since the sixteenth century. Students will become acquainted with some of the key theories of men and masculinities, examine in depth the interplay between manhood and modernity, and develop research projects on a topic negotiated with the instructor. May be repeated if content varies sufficiently. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as HIST 626, HWC 570) LEC
CHANGE: COURSE DESCRIPTION AND NEW REQUEST TO CROSSLIST COURSE IS CURRENTLY CROSSTLISTED

WGSS 575 BODY, SELF AND SOCIETY 3 H
(OLD)
An examination of the role of the human body in the creation of personal and social identities in the West since the sixteenth century. Contemporary theories of embodiment are applied to a variety of historical themes, which may include posture, manners and morality; cleanliness and hygiene; exercise, dieting and body-building; sexuality and personal identity; fashion, make-up and cosmetic surgery; vegetarianism, self-help literature and alternative medicine; tattooing and body modification; and the history of the senses. (Same as HWC 575)

WGSS 575 BODY, SELF AND SOCIETY 3 H
(NEW)
An examination of the role of the human body in the creation of personal and social identities in the West since the sixteenth century. Contemporary theories of embodiment are applied to a variety of historical themes, which may include posture, manners and morality; cleanliness and hygiene; exercise, dieting and body-building; sexuality and personal identity; fashion, make-up and cosmetic surgery; vegetarianism, self-help literature and alternative medicine; tattooing and body modification; and the history of the senses. Prerequisite: an upper-division course in HIST, HWC, or WGSS; or permission of instructor. (Same as HIST 625, HWC 575)

A. Degree Requirements for Approval

a. Changes to Existing Major in Chemistry – BA and BS
First- and Second-Year Preparation
Because study in chemistry requires preparation in mathematics and physics as well as a structured series of courses in chemistry, students should begin meeting major requirements in the first year. Students planning to major in chemistry should consult a chemistry department major adviser during their first semester to develop a 4-year plan for degree completion. It is particularly important to take CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) in the first year and CHEM 624 (or CHEM 628) and CHEM 625 in the second year. For those seeking a B.S. degree it is also important to complete CHEM 626 (or CHEM 630) and CHEM 627 in the second year as well as their mathematics preparation (MATH 121, MATH 122, MATH 220 or MATH 320, and MATH 290) and physics preparation (PHSX 211 and PHSX 212) in the first 2 years.

Requirements for the B.A. Major
In addition to the common College requirements for the B.A., a minimum of 29 to 30 hours in chemistry (including 5 hours each of analytical, organic, and physical chemistry lecture and laboratory) and one year each of calculus and physics (prerequisites for physical chemistry) are required. These courses fulfill the requirements:

Chemistry Courses – 29 hours
CHEM 184 (or CHEM 185) Foundations of Chemistry I (5)
CHEM 188 (or CHEM 189) Foundations of Chemistry II (5)
CHEM 295 180 Seminar I (0.5)
CHEM 622 Fundamentals of Organic Chemistry (3) or
CHEM 624 (or CHEM 628) Organic Chemistry I (3)
CHEM 625 Organic Chemistry I Laboratory (2)
CHEM 516 Analytical Chemistry (3)
CHEM 517 Analytical Chemistry Laboratory (2)
CHEM 640 Biological Physical Chemistry (3) and
CHEM 641 Biological Physical Chemistry Laboratory (2) or
CHEM 646 Physical Chemistry I (3) and
CHEM 647 Physical Chemistry I Laboratory (2)
CHEM 695 Seminar II (0.5)
Additional chemistry course (3)
Mathematics and Physics – 14-18 hours
MATH 115 Calculus I (3) or
MATH 121 Calculus I (5)
MATH 116 Calculus I (3) or
MATH 122 Calculus II (5)
PHSX 114 College Physics I (4) or
PHSX 211 General Physics I (4)
PHSX 115 College Physics II (4) or
PHSX 212 General Physics II (4)

Courses that fulfill the additional 3 hours for the major are CHEM 626 (or CHEM 630) Organic Chemistry II, CHEM 635 and CHEM 636 Instrumental Methods of Analysis and Laboratory, CHEM 648 Physical Chemistry II, or CHEM 667 Systematic Inorganic Chemistry. Note that CHEM 648 has CHEM 646, MATH 223, and MATH 290 as prerequisites. Students in premedical programs should be aware that a year of organic chemistry lecture and laboratory (CHEM 624 or CHEM 628, CHEM 625, CHEM 626 or CHEM 630, and CHEM 627) is required for admission to virtually all medical schools. Students who need only 1 semester of organic chemistry should substitute CHEM 622 (the 1-semester organic chemistry lecture course) for CHEM 624, when possible.

Graduation Plan
With careful planning and commitment to a full-time course load, you can graduate in 4 years. Download a sample 4-year plan for chemistry.

Environmental Chemistry Option
This option is available to students who plan to use their chemistry background in environmentally related areas. The additional courses required provide background in other environmental sciences as well as further exposure to important methods used in environmental laboratories.

In addition to all of the requirements for the regular B.A. major, the following courses are required:
*CHEM 626 (or CHEM 630) Organic Chemistry II (3)
CHEM 627 Organic Chemistry II Laboratory (2)
CHEM 635 Instrumental Methods of Analysis (2)
CHEM 636 Instrumental Methods of Analysis Laboratory (2)
Plus 2 electives (6) (In consultation with a faculty major adviser, choose two courses from those listed in Environmental Chemistry Option Group I or Environmental Chemistry Option Group II below.)

**Environmental Chemistry Option Group I**

BIOL 100 Principles of Biology (3) or
BIOL 150 Principles of Molecular and Cellular Biology (4)
EVRN 148 Scientific Principles of Environmental Studies (3)
GEOG 304 Environmental Conservation (3)
GEOL 351 Environmental Geology (3)
BIOL 400 Fundamentals of Microbiology (3)
BIOL 414 Principles of Ecology (3)
BIOL 600 Introductory Biochemistry, Lectures (4)
ATMO 105 Introductory Meteorology (5)

**Environmental Chemistry Option Group II**

BIOL 660 Lake Ecology (with or without BIOL 662 Aquatic Ecology Laboratory) (3-5)
CE 477 Introduction to Environmental Engineering and Science (3)
GEOL 552 Introduction to Hydrogeology (3)
ATMO 525 Air Pollution Meteorology (3)
EVRN 611 Water Quality, Land Use, and Watershed Ecosystems (3)
CHEM 698 Undergraduate Research Problems (3)

*Select this course as the additional chemistry course.

Biological Chemistry Option
This option is available to students interested in the biological applications of chemistry. The curriculum is compatible with many pre-health professions programs and prepares the student for graduate study or career opportunities.

In addition to all of the requirements for the regular B.A. major, the following courses are required:

*CHEM 626 (or CHEM 630) Organic Chemistry II (3)
CHEM 627 Organic Chemistry II Laboratory (2)
BIOL 600 Introductory Biochemistry, Lectures (4)

Plus 2 electives (6) (In consultation with a faculty major adviser, choose 2 courses from those listed in Group I or Group II in Requirements for the B.S. Degree in Chemistry: Biological Chemistry Option.)

*Select this course as the additional chemistry course.

First- and Second-Year Preparation

Because study in chemistry requires preparation in mathematics and physics as well as a structured series of courses in chemistry, students should begin meeting major requirements in the first year. Students planning to major in chemistry should consult a chemistry department major adviser during their first semester to develop a 4-year plan for degree completion. It is particularly important to take CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) in the first year and CHEM 624 (or CHEM 628) and CHEM 625 in the second year. For those seeking a B.S. degree it is also important to complete CHEM 626 (or CHEM 630) and CHEM 627 in the second year as well as their mathematics preparation (MATH 121, MATH 122, MATH 220 or MATH 320, and MATH 290) and physics preparation (PHSX 211 and PHSX 212) in the first 2 years.

Requirements for the B.S. Degree

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.

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.

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

Humanities - Understanding the Human Condition. Satisfied by completing 1 course in 1 of the following categories: historical studies (requirement code HT), literature and the arts (requirement code HL), and philosophy and religion (requirement code HR). Approved courses may be searched for availability through the Kyou portal.

Social and Behavioral Sciences - Understanding Society and Behavior. Satisfied by completing 2 courses at least 1 of the following categories: individual behavior (requirement code SI), culture and society (requirement code SC), or public affairs (requirement code SF). Approved courses may be searched for availability through the Kyou portal.

Additional Language or Skill. Satisfied by a course in French, German, Russian, Japanese, Chinese, Spanish, or EECS 138, CHEM 711, MATH 526, or MATH 320, or another language or skill course.

Native speakers must demonstrate ability to translate selected material into acceptable scientific English. Although a second language is no longer required for the B.S. degree, both the chemistry department and the ACS strongly recommend study of a second language.
Chemistry 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.

B. Calculus I and II. Satisfied by MATH 121 and MATH 122.
C. Differential Equations. Satisfied by MATH 220 or 320.
D. Elementary Linear Algebra. Satisfied by MATH 290.
E. General or College Physics I. Satisfied by PHSX 211 or PHSX 213.
F. General or College Physics II. Satisfied by PHSX 212 or PHSX 214.
G. Biochemistry. Satisfied by BIOL 600 or 636.

Chemistry Core Knowledge and Skills
Majors must complete courses as indicated in the following areas:
1. Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
2. Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
4. Analytical Chemistry (Lecture and Lab). Satisfied by CHEM 516 and 517.
5. Organic Chemistry I (Lecture and Lab). Satisfied by CHEM 624 (CHEM 628) and CHEM 625.
7. Instrumental Methods of Analysis (Lecture and Lab). Satisfied by CHEM 635 and CHEM 636.
8. Physical Chemistry I and II (Lecture and Lab). Satisfied by CHEM 646 and CHEM 647.
11. Seminar II. Satisfied by CHEM 695.

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 56 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 43 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.

Environmental Chemistry Option
This option allows students to focus on environmental issues and to understand how chemistry may be applied to environmental problems. Students are prepared for graduate programs or employment. Majors choosing this option should select 2 electives (6 hours) from each of the following groups:

Environmental Chemistry Option Group I

- BIOL 150 Principles of Molecular and Cellular Biology (4)
- EVRN 148 Scientific Principles of Environmental Studies (3)
- GEOG 304 Environmental Conservation (3)
- **GEOL 351** Environmental Geology (3)
- **Biol 400** Fundamentals of Microbiology (3)
- **Biol 414** Principles of Ecology (3)
- **ATMO 105** Introductory Meteorology (5)

**Environmental Chemistry Option Group II**

I. **Biol 660** Lake Ecology (with or without **Biol 662** Aquatic Ecology Laboratory) (3-5)
II. **Biol 661** Stream Ecology (with or w/out **Biol 662** Aquatic Ecology Laboratory) (3-5)
III. **CE 477** Introduction to Environmental Engineering and Science (3)
IV. **GEOL 552** Introduction to Hydrogeology (3)
V. **ATMO 525** Air Pollution Meteorology (3)
VI. **EVRN 611** Water Quality, Land Use, and Watershed Ecosystems (3)
VII. **CHEM 698** Undergraduate Research Problems (3)

All 4 courses chosen from Groups I and II may not be in the same department or division.

**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 42 hours of KU resident credit in the major.

**Major Junior/Senior Hours**

Satisfied by a minimum of 15 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](#).

**Biochemistry Option**

This option is available to students interested in the biological applications of chemistry. The curriculum is compatible with many pre-health-professions programs and prepares the student for graduate study or career opportunities.

**Chemistry 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.

a. Calculus I. Satisfied by [MATH 115], [MATH 121], or [MATH 141] (or equivalent).
b. Calculus II. Satisfied by [MATH 116], [MATH 122], or [MATH 142] (or equivalent).
c. General or College Physics I. Satisfied by [PHSX 114], [PHSX 211], or [PHSX 213].
d. General or College Physics II. Satisfied by [PHSX 115], [PHSX 212], or [PHSX 214].

**Chemistry Core Knowledge and Skills**

Majors must complete a course in each of the 5 following areas:

1. Foundations of Chemistry I. Satisfied by [CHEM 184] or [CHEM 185].
2. Foundations of Chemistry II. Satisfied by [CHEM 188] or [CHEM 189].
3. Seminar I. Satisfied by [CHEM 295 180].
5. Organic Chemistry Lab I. Satisfied by CHEM 625.
6. Analytical Chemistry. Satisfied by CHEM 516
7. Analytical Chemistry Laboratory. Satisfied by CHEM 517
8. Physical or Biological Physical Chemistry. Satisfied by CHEM 640 or CHEM 646.
9. Biological Physical Chemistry Laboratory. Satisfied by CHEM 641 or CHEM 647.
10. Seminar II. Satisfied by CHEM 695.

Biological Chemistry Core Knowledge and Skills
- Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
- Organic Chemistry Lab II. Satisfied by CHEM 627.
- Biochemistry. Satisfied by BIOL 636 and BIOL 638.

Biological Chemistry Required Electives
Majors choosing this option should select 2 electives (6 hours) from BIOL 350, BIOL 400, or BIOL 416.

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 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 12 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.

Chemical Physics Option
This option allows students to focus on the theoretical basis of chemistry. Students are prepared for graduate programs or employment.

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.

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).

Humanities - Understanding the Human Condition. Satisfied by completing 1 course in 1 of the following categories: historical studies (requirement code HT), literature and the arts (requirement code...
HL), and philosophy and religion (requirement code HR). Approved courses may be searched for availability through the Kyou portal.

Social and Behavioral Sciences - Understanding Society and Behavior. Satisfied by completing 2 courses at least 1 of the following categories: individual behavior (requirement code SI), culture and society (requirement code SC), or public affairs (requirement code SF). Approved courses may be searched for availability through the Kyou portal.

Chemistry 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 and II. Satisfied by MATH 121 and MATH 122.
- Differential Equations. Satisfied by MATH 220 or 320.
- Vector Calculus. Satisfied by MATH 223.
- Elementary Linear Algebra. Satisfied by MATH 290.
- General or College Physics I. Satisfied by PHSX 211 or PHSX 213.
- General or College Physics II. Satisfied by PHSX 212 or PHSX 214.
- Biochemistry. Satisfied by BIOL 600 or 636.

Chemistry Core Knowledge and Skills. Majors must complete courses as indicated in the following areas:

- Foundations of Chemistry I. Satisfied by CHEM 184 (CHEM 185).
- Foundations of Chemistry II. Satisfied by CHEM 188 (CHEM 189).
- Seminar I. Satisfied by CHEM 295 180.
- Analytical Chemistry (Lecture and Lab). Satisfied by CHEM 516 and 517.
- Organic Chemistry I (Lecture and Lab). Satisfied by CHEM 624 (CHEM 628) and CHEM 625.
- Organic Chemistry II (Lecture and Lab). Satisfied by CHEM 626 (CHEM 630) and CHEM 627.
- Instrumental Methods of Analysis (Lecture and Lab). Satisfied by CHEM 635 and CHEM 636.
- Physical Chemistry I and II (Lecture and Lab). Satisfied by CHEM 646 and CHEM 647.
- Physical Chemistry II (Lecture and Lab). Satisfied by CHEM 648 and CHEM 649.
- Systematic Inorganic Chemistry. Satisfied by CHEM 667.
- Advanced Inorganic Laboratory. Satisfied by CHEM 668.
- Seminar II. Satisfied by CHEM 695.

Chemical Physics Option Core Knowledge and Skills
Majors must complete 2 courses from each of the following groups:

Group I. Satisfied by

- PHSX 313 General Physics III (3) N
- PHSX 316 Intermediate Physics Laboratory I (1) U
- PHSX 518 Mathematical Physics (3) N
- PHSX 521 Mechanics I (3) N
- PHSX 615 Numerical and Computational Methods in Physics (3) N
- PHSX 623 Physics of Fluids (3) N
- PHSX 655 Optics (3) N
- PHSX 681 Concepts in Solids (3) N

Group II. Satisfied by [number changes approved??]

A. PHSX 531 Electricity and Magnetism (3) N
B. PHSX 621 Mechanics II (3) N
C. MATH 646 Complex Variable and Applications (3) N
D. **MATH 647** Applied Partial Differential Equations (3) N
E. **CHEM 750** Quantum Chemistry and Spectroscopy (3)
F. **CHEM 752** Statistical Thermodynamics (3)

**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 62 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 33 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 51 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.

b. **Changes to Existing Major in English Proposal**
The Traditional English emphasis requires 18 core hours and 12 hours of English electives at the 300-level or above.

**Note:** this draft corrects mistakes in the catalog (in red) as well as adds new courses being submitted through CUSA (bold, highlight, underline).

**English Major Core Knowledge and Skills**
Majors must complete the following requirements:
Introduction of Literary Criticism and Theory. Satisfied by 1 of the following:

a. **ENGL 308** Introduction to Literary Criticism and Theory (3)
b. **ENGL 508** Contemporary Literary Theory (3)

**Major British Writers I** (Middle Ages to 1800, excluding Shakespeare). Satisfied by 1 of the following:

a. **ENGL 301** British Literature to 1800:_______ (3) H
b. **ENGL 312** Major British Writers to 1800 (3) H
c. **ENGL 315** Studies in British Literature (3) HL / H : Note: may count for one but not both British literature requirements
d. **ENGL 331** Chaucer (3) H
e. **ENGL 521** British Literature before 1800:
f. **ENGL 522** British Literature after 1800:
g. **ENGL 610** The Literature of England to 1500 (3) H
h. **ENGL 620** Renaissance English Literature:_______ (3) H
i. **ENGL 633** Milton (3) H
j. **ENGL 640** British Literature, 1600-1800_______ (3) H
k. Topics courses, including **ENGL 334**, 390, 479, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of British material written prior to 1800.

**Major British Writers II** (Romantic Period to Present). Satisfied by 1 of the following:

a. **ENGL 302** British Literature Since 1800:_______ (3) H
b. **ENGL 305** World Indigenous Literatures (3) NW / H
c. ENGL 309 The British Novel (3) HL / H

d. ENGL 314 Major British Writers after 1800 (3) H

e. ENGL 315 Studies in British Literature (3) HL / H: Note: may count for one but not both British literature requirements

f. ENGL 492 The London Review (3) H

g. ENGL 530 Irish Literature and Culture: _____ (3) H

h. ENGL 560 British Literature of the 20th Century _____ (3) H

i. ENGL 565 The Gothic Tradition (3) H

j. ENGL 650 Romantic Literature: _____ (3) H

k. ENGL 655 Victorian Literature: _____ (3) H

l. ENGL 674 African Literature (3) H

m. Topics courses, including ENGL 305, 326, 327, 334, 390, 479, 567, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of British, commonwealth, or postcolonial material written after 1800.

**Shakespeare.** Satisfied by 1 of the following:

- ENGL 332 Shakespeare (3) H
- ENGL 525 Shakespeare: _____ (3) H

**American Literature I (Colonial Times to 1865).** Satisfied by ENGL 320 or equivalent.

a. ENGL 320 American Literature I (3) H

b. ENGL 317 Topics in American Literature to 1865: _____ (3) H

c. ENGL 576 Advanced Topics in American Literature to 1865: _____ (3) H

d. Topics courses, including ENGL 334, 390, 479, 567, 570, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of American material written prior to 1865.

**American Literature II (1865 to the Present).** Satisfied by one of the following:

- ENGL 316 Introduction to Major American Writers (3) H
- ENGL 318 Topics in American Literature Since 1865: _____ (3) H
- ENGL 322 American Literature II (3) H
- ENGL 325 Recent Popular Literature (3) HL / H
- ENGL 336 Jewish American Literature and Culture (3) H
- ENGL 337 Introduction to U.S. Latino/a Literature (3) H
- ENGL 338 Introduction to African-American Literature (3) H
- ENGL 340 Topics in U.S. Ethnic Literature: _____ (3) H
- ENGL 571 American Indian Literature (3) NW/H/W
- ENGL 573 US Latina/o Literature: _____ (3) H
- ENGL 574 African American Literature: _____ (3) H
- ENGL 575 Literature of the American South (3) H
- ENGL 577 Advanced Topics in American Literature Since 1900: 1865: _____ (3) H
- ENGL 578 Poetry, 1900-1945 (3) H
- ENGL 579 Poetry since 1945 (3) H
- Topics courses, including ENGL 305, 323, 324, 327, 334, 390, 479, 567, 570, 572, 578, 579, 590, 592, 690, in sections where content is comprised of more than 50% of American material written after 1865.

**English Required Elective.** Majors must complete at least 4 junior/senior courses (12 hours) in English.

**Note:**

- Only 1 course (3 credits) of creative writing (fiction writing, nonfiction writing, poetry writing, screen writing or playwriting) may be applied as a major elective.
- 1 course (in the HWC 304/308/312 sequence may be applied as a major elective.
Up to 6 credits combined of ENGL 494 (Research Internship) or ENGL 495 (Directed Study) may be applied as major electives; they may not count as English core equivalents.

Up to 3 credit hours of ENGL 496 (Internship) or ENGL 497 (Service Learning Internship) may be applied as a major elective.

Language, Rhetoric, and Writing Emphasis

English Major Core Knowledge and Skills

Majors must complete the following requirements:

**Introduction of Literary Criticism and Theory.** Satisfied by 1 of the following:
- ENGL 308 Introduction to Literary Criticism and Theory (3)
- ENGL 508 Contemporary Literary Theory (3)

**Major British Writers I (Middle Ages to 1800, excluding Shakespeare).** Satisfied by 1 of the following:
- ENGL 301 British Literature to 1800:_____ (3) H
- ENGL 312 Major British Writers to 1800 (3) H
- ENGL 315 Studies in British Literature (3) HL / H: Note: may count for one but not both British literature requirements
- ENGL 331 Chaucer (3) H
- ENGL 521 British Literature before 1800:_____ (3) H

**Major British Writers II (Romantic Period to Present).** Satisfied by 1 of the following:
- ENGL 302 British Literature Since 1800:_____ (3) H
- ENGL 305 World Indigenous Literatures (3) NW / H
- ENGL 309 The British Novel (3) HL / H
- ENGL 314 Major British Writers after 1800 (3) H
- ENGL 315 Studies in British Literature (3) HL / H: Note: may count for one but not both British literature requirements
- ENGL 492 The London Review (3) H
- ENGL 530 Irish Literature and Culture:_____ (3) H
- ENGL 560 British Literature of the 20th Century _____ (3) H
- ENGL 565 The Gothic Tradition (3) H
- ENGL 650 Romantic Literature:_____ (3) H
- ENGL 655 Victorian Literature:_____ (3) H
- ENGL 674 African Literature (3) H

**Shakespeare.** Satisfied by 1 of the following:
- ENGL 332 Shakespeare (3) H
- ENGL 525 Shakespeare:_____ (3) H

**American Literature I (Colonial Times to 1865).** Satisfied by ENGL 320 or equivalent.
- ENGL 320 American Literature I (3) H
- ENGL 317 Topics in American Literature to 1865: _____ (3) H
- ENGL 576 Advanced Topics in American Literature to 1865: _____ (3) H
- Topics courses, including ENGL 334, 390, 479, 567, 570, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of American material written prior to 1865.

American Literature II (1865 to the Present). Satisfied by one of the following:
- ENGL 316 Introduction to Major American Writers (3) H
- ENGL 318 Topics in American Literature Since 1865: _____ (3) H
- ENGL 322 American Literature II (3) H
- ENGL 325 Recent Popular Literature (3) HL / H
- ENGL 336 Jewish American Literature and Culture (3) H
- ENGL 337 Introduction to U.S. Latino/a Literature (3) H
- ENGL 338 Introduction to African-American Literature (3) H
- ENGL 340 Topics in U.S. Ethnic Literature: _____ (3) H
- ENGL 571 American Indian Literature (3) NW/H/W
- ENGL 573 US Latina/o Literature: _____ (3) H
- ENGL 574 African American Literature: _____ (3) H
- ENGL 575 Literature of the American South (3) H
- ENGL 577 Advanced Topics in American Literature Since 1865: _____ (3) H
- ENGL 578 Poetry, 1900-1945 (3) H
- ENGL 579 Poetry since 1945 (3) H
- Topics courses, including ENGL 305, 323, 324, 327, 334, 390, 479, 567, 570, 572, 578, 579, 590, 592, 690, in sections where content is comprised of more than 50% of American material written after 1865.

English Required Electives.
- Majors must complete 5 courses (15 hours) in English Language, Rhetoric, and Writing, including either English 380 or 387; at least 6 additional hours of language or rhetoric courses; and 6 additional hours of language or rhetoric or writing courses. Only 1 creative writing course may be applied to the writing courses.

Introduction to Rhetoric and Composition or Introduction to the English Language. Satisfied by ENGL 380 or 387.

Language or Rhetoric Electives. Satisfied by completion of 2 of the following (not used above):
- ENGL 359 English Grammar (3) U
- ENGL 380 Introduction to Rhetoric and Composition (3) H
- ENGL 385 The Development of Modern English (3) H
- ENGL 387 Introduction to the English Language (3) HL / H
- ENGL 400 Teaching and Tutoring Writing (3) U
- ENGL 580 Rhetoric and Writing: _____ (3) H
- ENGL 587 American English (3) H
- ENGL 590 Studies in: World Englishes (1-3)
- ENGL 590 Studies in: Afrofuturism (1-3) This were one-time iterations. Do not list topic. Instead, replace with:
- ENGL 390, 590, 592, or 690, in sections where content is focused on language or rhetoric.

Language or Rhetoric or Writing Electives. Satisfied by completion of 2 of the following (not used above) and no more than 1 creative writing course.
- ENGL 359 English Grammar (3) U
- ENGL 360 Advanced Composition: _____ (3)
- ENGL 361 Professional Writing: _____ (3)
- ENGL 362 Foundations of Technical Writing (3)
- ENGL 380 Introduction to Rhetoric and Composition (3) H
ENGL 385 The Development of Modern English (3) H
ENGL 387 Introduction to the English Language (3) HL / H
ENGL 400 Teaching and Tutoring Writing (3) U
ENGL 562 Advanced Technical Writing I (3)
ENGL 563 Advanced Technical Writing and Editing (3)
ENGL 564 Advanced Technical Editing I (3)
ENGL 580 Rhetoric and Writing: ______ (3) H
ENGL 587 American English (3) H
ENGL 590 Studies in: World Englishes (1-3)
ENGL 590 Studies in: Afrofuturism (1-3)

ENGL 390, 590, 592, or 690, in sections where content is focused on language, rhetoric, or writing.

One of the following creative writing courses or courses outside the English department may be used as a language or rhetoric or writing elective. Once 1 of these is fulfilling an elective in the language, rhetoric, and writing track, no more may count.

• ENGL 351 Fiction Writing I (3) H
• ENGL 352 Poetry Writing I (3) H
• ENGL 353 Screenwriting I (3) H
• ENGL 354 Playwriting I (3) H
• ENGL 355 Nonfiction Writing I (3) H
• ENGL 551 Fiction Writing II (3) H
• ENGL 552 Poetry Writing II (3) H
• ENGL 553 Screenwriting II (3) H
• ENGL 554 Playwriting II (3) H
• ENGL 555 Nonfiction Writing II (3) H
• HWC 304 Masterpieces of World Literature I (3) HL / H
• HWC 308 Masterpieces of World Literature II (3) HL / H
• HWC 312 Masterpieces of World Literature III (3) HL / H
• FMS 373 Intermediate Screenwriting (3) H

Note:
Up to 6 credits combined of ENGL 494 (Research Internship) or ENGL 495 (Directed Study) may be applied as major electives; they may not count as English core equivalents.
Up to 3 credit hours of ENGL 496 (Internship) or ENGL 497 (Service Learning Internship) may be applied as a major elective.

Creative-Writing Emphasis

Permission to Pursue Emphasis. Students intending to pursue the creative-writing emphasis must apply for admission. Students should do so before enrolling in their third creative-writing course at the 300-level or above. To be accepted into the emphasis, students must earn grades of B or better in each of two 300-level creative writing workshops: English 351, 352, 353, 354, 355 and 360 (when topic is “essay writing”).

Core Requirements
Creative Writing Core Knowledge and Skills

Majors must complete a course in 5 of the following 6 areas:

Introduction of Literary Criticism and Theory. Satisfied by 1 of the following:
• ENGL 308 Introduction to Literacy Criticism and Theory (3)
• ENGL 508 Contemporary Literary Theory (3)

Major British Writers I (Middle Ages to 1800, excluding Shakespeare). Satisfied by 1 of the following:
• ENGL 301 British Literature to 1800:_______ (3) H
• ENGL 312 Major British Writers to 1800 (3) H
• ENGL 315 Studies in British Literature (3) HL / H : Note: may count for one but not both British literature requirements
• ENGL 331 Chaucer (3) H
• ENGL 521 British Literature before 1800:
  • ENGL 522 British Literature after 1800:
    • ENGL 610 The Literature of England to 1500 (3) H
    • ENGL 620 Renaissance English Literature: ______ (3) H
    • ENGL 633 Milton (3) H
    • ENGL 640 British Literature, 1600-1800 ______ (3) H
• Topics courses, including ENGL 334, 390, 479, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of British material written prior to 1800.

Major British Writers II (Romantic Period to Present). Satisfied by 1 of the following:
• ENGL 302 British Literature Since 1800:______ (3) H
• ENGL 305 World Indigenous Literatures (3) NW / H
• ENGL 309 The British Novel (3) HL / H
• ENGL 314 Major British Writers after 1800 (3) H
• ENGL 315 Studies in British Literature (3) HL / H: Note: may count for one but not both British literature requirements
• ENGL 492 The London Review (3) H
• ENGL 530 Irish Literature and Culture: ______ (3) H
• ENGL 560 British Literature of the 20th Century ______ (3) H
• ENGL 565 The Gothic Tradition (3) H
• ENGL 650 Romantic Literature: ______ (3) H
• ENGL 655 Victorian Literature: ______ (3) H
• ENGL 674 African Literature (3) H
• Topics courses, including ENGL 305, 326, 327, 334, 390, 479, 567, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of British, commonwealth, or postcolonial material written after 1800.

Shakespeare. Satisfied by 1 of the following:
• ENGL 332 Shakespeare (3) H
• ENGL 525 Shakespeare: ______ (3) H

American Literature I (Colonial Times to 1865). Satisfied by ENGL 320 or equivalent.
• ENGL 320 American Literature I (3) H
• ENGL 317 Topics in American Literature to 1865: ______ (3) H
• ENGL 576 Advanced Topics in American Literature to 1865:______ (3) H
• Topics courses, including ENGL 334, 390, 479, 567, 570, 572, 590, 592, and 690, in sections where content is comprised of more than 50% of American material written prior to 1865.

American Literature II (1865 to the Present). Satisfied by one of the following:
• ENGL 316 Introduction to Major American Writers (3) H
• ENGL 318 Topics in American Literature Since 1865: ______ (3) H
• ENGL 322 American Literature II (3) H
• ENGL 325 Recent Popular Literature (3) HL / H
• ENGL 336 Jewish American Literature and Culture (3) H
• ENGL 337 Introduction to U.S. Latino/a Literature (3) H
• ENGL 338 Introduction to African-American Literature (3) H
• ENGL 340 Topics in U.S. Ethnic Literature: ______ (3) H
• ENGL 571 American Indian Literature (3) NW/H/W
- ENGL 573 US Latina/o Literature:____ (3) H
- ENGL 574 African American Literature:____ (3) H
- ENGL 575 Literature of the American South (3) H
- ENGL 577 Advanced Topics in American Literature Since 1865: _____ (3) H
- ENGL 578 Poetry, 1900-1945 (3) H
- ENGL 579 Poetry since 1945 (3) H
- Topics courses, including ENGL 305, 323, 327, 334, 390, 479, 567, 570, 572, 578, 579, 590, 592, 690, in sections where content is comprised of more than 50% of American material written after 1865.

Creative Writing Emphasis. Majors must complete 15 hours of English Creative Writing courses, including work in at least 2 genres:

Fiction. Satisfied by 1 of the following:
- ENGL 351 Fiction Writing I (3) H
- ENGL 551 Fiction Writing II (3) H

Poetry. Satisfied by 1 of the following:
- ENGL 352 Poetry Writing I (3) H
- ENGL 552 Poetry Writing II (3) H

Playwriting/Screenwriting. Satisfied by 1 of the following:
- ENGL 353 Screenwriting I (3) H
- ENGL 354 Playwriting I (3) H
- ENGL 553 Screenwriting II (3) H
- ENGL 554 Playwriting II (3) H
- FMS 373 Intermediate Screenwriting (3) H

Non-Fiction. Satisfied by 1 of the following:
- ENGL 355 Nonfiction Writing I (3) H
- ENGL 555 Nonfiction Writing II (3) H

English Major Capstone. Majors must complete 2 capstone courses with a minimum of 1 creative writing capstone. Any creative writing course numbered 500 or above may be repeated once for credit.* Course may satisfy requirements above.
- Creative Writing Capstone. Satisfied by 1 course (3 hours) from ENGL 551, 552, 553, 554, 555.
- Second English Capstone. Satisfied by 1 additional 500+ level ENGL course or creative writing course (3 hours).

Note:
Up to 6 credits combined of ENGL 494 (Research Internship) or ENGL 495 (Directed Study) may be applied as major electives; they may not count as English core equivalents.
Up to 3 credit hours of ENGL 496 (Internship) or ENGL 497 (Service Learning Internship) may be applied as a major elective.

Justification
-adds new courses into course lists for major.
-specifies how new internship courses will fit into the major; clarifies already existing policy on courses (see "Limitations").
-Note: changes in red indicate mistakes in catalog. These are not actually changes or new proposals, but include new wording.

c. Changes to Existing Major in Humanities
Proposal
HWC MAJOR: CURRENT DESCRIPTION
The Humanities major requires a total of 30 credit hours. Students must take courses in at least three humanities and or social science departments or programs with a maximum of 15 hours from one department (excepting HWC in which students will take more than 15 hours). 18 of the 30 credit hours must be in courses numbered 300 or above.

Note: Sharing course work (credit hours) between any of the HWC major tracks and another major is restricted to 6 hours. All other courses taken toward the major must be approved by the HWC undergraduate coordinator.

**Track #1**

Civilizations in a Global Context. This track studies aspects of the cultures of Western civilization and of one non-Western civilization (e.g. Africa, Asia, the Middle East, or Latin America). It is designed to provide the student with knowledge of diverse civilizations and with methods for investigating their differences and commonalities. 30 credit hours, to include the following:

- **9 hours of introductory and capstone coursework:**
  - HWC 110 /111 Introduction to Humanities
  - HWC 325 Theory and Method in Interdisciplinary Studies
  - HWC 424 Senior Seminar (The senior essay for this track is to be a comparative and integrative study of a topic that bridges the two civilizations studied.)

- **21 additional hours to include:**
  - HWC 206 Contemporary Western Civilization
  - HWC 430 European Civilization in World Context
  - 6 Hours in aspects of the cultures of Western Civilization, one of which must be an HWC course.
  - 9 Hours in aspects of the cultures of non-Western civilization.

**Track #2**

World Literatures. Literary-critical studies of both Western and non-Western literatures, designed to provide the student with knowledge of diverse literary traditions and with methods for investigating their differences and commonalities. 30 credit hours to include the following:

- **9 hours of introductory and capstone coursework:**
  - HWC 110 /111 Introduction to Humanities
  - HWC 325 Theory and Method in Interdisciplinary Studies
  - HWC 424 Senior Seminar (The senior essay for this track is to be a comparative literary-critical study of a topic common to two different literary traditions.)

- **21 additional hours to include:**
  - 6 Hours in the “Masterpieces of World Literature” series: HWC 304, 308, 312;
  - 3 Hours of additional literature coursework chosen from among the following:
    - the third HWC Masterpiece of World Literature course
    - any other HWC literature course upon approval from an advisor
    - a course in American, British or Irish literature (or any other English language or literature course)
  - 6 Hours in the literature of a non-English-language European culture in translation (France, Germany, Italy, Spain, etc.). Students possessing a reading knowledge of one of the European languages are strongly encouraged to take one of the literature courses in the original language.
  - 6 Hours in the literature of a non-Western culture in translation. Students possessing a reading knowledge of a Non-Western language are strongly encouraged to take one of the literature courses in the original language.

**Track #3**

Peace and Conflict Studies. This track is designed to provide students with opportunities to study issues of violence and methods of peace-making from an interdisciplinary humanities perspective. 30 credit hours to include the following:

- **9 hours of required introductory and capstone coursework:**
  - HWC 110 Introduction to Humanities
PCS 120 Introduction to Peace and Conflict Studies
PCS 650 Senior Seminar. (The senior seminar for this track requires students to explore a key research question through the application of theoretical concerns to the topic.)

21 additional hours to include:
6 hours PCS upper division courses (2 out of 3):
PCS 550 Classics of Peace Literature
PCS 555 Peace Education
PCS 565 Literature of Human Rights

6 hours of interdisciplinary core courses, for example:
ANTH 501 Anthropology of Violence
HIST 314 History of Globalization
POLS 674 International Ethics
POLS 684 or 685 International Law
REL 667 Religious Perspectives on War and Peace
REL/COMS 669 Human Conflict and Peace
SOC 650 Transnational Migration

9 hours of courses from one of the three designated areas:
Area 1: The pursuit of social, economic and environmental justice, for example:
HIST 314 History of Globalization
POLS 663 Protest and Revolution
SOC 351 Africa Today
SOC 521 Wealth, Power, and Inequality

Area 2: The role of nation-states and of international norms and institutions, for example:
HIST 334 The Great War: History of World War I
HIST 340 History of the Second World War
POLS 661 Politics of the Middle East
POLS 678 Chinese Foreign Policy
POLS 689 Topics in International Relations: Human Rights

Area 3: The impact of religious, philosophical, and cultural influences, for example:
ANTH 501 Anthropology of Violence
ENGL 536 Readings in the Holocaust
PCS 555 Classics of Peace Literature
REL 665 Religious Ethics
REL/COMS 669 Human Conflict and Peace
WGSS 665 Women, Health, and Healing in Latin America

HWC MAJOR: NEW DESCRIPTION
The proposed change eliminates HWC 325 Theory and Method in Interdisciplinary Study from the HWC Major. This directly affects Track #1 Civilization in a Global Context and Track #2 World Literatures where it has been an introductory requirement. The new version of the HWC Major is as follows:

HWC MAJOR: NEW DESCRIPTION (With highlighted changes)
The Humanities major requires a total of 30 credit hours. Students must take courses in at least three humanities and or social science departments or programs with a maximum of 15 hours from one department (excepting HWC in which students will take more than 15 hours). 18 of the 30 credit hours must be in courses numbered 300 or above.
Note: Sharing course work (credit hours) between any of the HWC major tracks and another major is restricted to 6 hours.
All other courses taken toward the major must be approved by the HWC undergraduate coordinator.

Track #1
Civilizations in a Global Context. This track studies aspects of the cultures of Western civilization and of one non-Western civilization (e.g. Africa, Asia, the Middle East, or Latin America). It is designed to provide the student with knowledge of diverse civilizations and with methods for investigating their differences and commonalities. 30 credit hours, to include the following:

6 hours of introductory and capstone coursework:
HWC 110/111 Introduction to Humanities
WC 424 Senior Seminar in Humanities (The senior essay for this track is to be a comparative and integrative study of a topic that bridges the two civilizations studied.)

24 additional hours to include:
HWC 206 Contemporary Western Civilization
HWC 430 European Civilization in World Context
9 Hours in aspects of the cultures of Western Civilization, one of which must be an HWC course.
9 Hours in aspects of the cultures of non-Western civilization.

Track #2
World Literatures. Literary-critical studies of both Western and non-Western literatures, designed to provide the student with knowledge of diverse literary traditions and with methods for investigating their differences and commonalities. 30 credit hours to include the following:

6 hours of introductory and capstone coursework:
HWC 110/111 Introduction to Humanities
HWC 424 Senior Seminar in Humanities (The senior essay for this track is to be a comparative literary-critical study of a topic common to two different literary traditions.)

24 additional hours to include:
6 Hours in the “Masterpieces of World Literature” series: HWC 304, 308, 312;
6 Hours of additional literature coursework chosen from among the following:
- the third HWC Masterpiece of World Literature course
- any other HWC literature course upon approval from an advisor
- a course in American, British or Irish literature (or any other English language or literature course)
6 Hours in the literature of a non-English-language European culture in translation (France, Germany, Italy, Spain, etc.). Students possessing a reading knowledge of one of the European languages are strongly encouraged to take one of the literature courses in the original language.
6 Hours in the literature of a non-Western culture in translation. Students possessing a reading knowledge of a Non-Western language are strongly encouraged to take one of the literature courses in the original language.

Track #3
Peace and Conflict Studies. This track is designed to provide students with opportunities to study issues of violence and methods of peace-making from an interdisciplinary humanities perspective. 30 credit hours to include

the following:

9 hours of required introductory and capstone coursework:
HWC 110 Introduction to Humanities
PCS 120 Introduction to Peace and Conflict Studies
PCS 650 Senior Seminar. (The senior seminar for this track requires students to explore a key research question through the application of theoretical concerns to the topic.)

21 additional hours to include:
6 hours PCS upper division courses (2 out of 3):
PCS 550 Classics of Peace Literature
PCS 555 Peace Education
PCS 565 Literature of Human Rights
6 hours of interdisciplinary core courses, for example:
ANTH 501 Anthropology of Violence
HIST 314 History of Globalization
POLS 674 International Ethics
POLS 684 or 685 International Law
REL 667 Religious Perspectives on War and Peace
REL/COMS 669 Human Conflict and Peace
SOC 650 Transnational Migration

9 hours of courses from one of the three designated areas:
Area 1: The pursuit of social, economic and environmental justice, for example:
HIST 314 History of Globalization
POLS 663 Protest and Revolution
SOC 351 Africa Today
SOC 521 Wealth, Power, and Inequality

Area 2: The role of nation-states and of international norms and institutions, for example:
HIST 334 The Great War: History of World War I
HIST 340 History of the Second World War
POLS 661 Politics of the Middle East
POLS 678 Chinese Foreign Policy
POLS 689 Topics in International Relations: Human Rights

Area 3: The impact of religious, philosophical, and cultural influences, for example:
ANTH 501 Anthropology of Violence
ENGL 536 Readings in the Holocaust
PCS 555 Classics of Peace Literature
REL 665 Religious Ethics
REL/COMS 669 Human Conflict and Peace
WGSS 665 Women, Health, and Healing in Latin America

Justification
1) Deletion of HWC 325 --Theory and Method in Interdisciplinary Study-- as a core major requirement will enable students a greater degree of flexibility in designing their Humanities Major curriculum, and provide the opportunity for attaining greater depth of knowledge in an area of the student’s choice.
2) Much of the subject matter of HWC 325 is taught in HWC 110--Introduction to Humanities--and reviewed in HWC 424--Senior Seminar in Humanities—making the content of HWC 325 redundant.

d. New Minor in Humanities
Proposal
This is a proposal for a New Minor in Humanities with the following requirements.

The Minor in Humanities requires 18 hours of coursework, 12 hours of which must be taken at the junior/senior level, and 3 of which may be shared with a student’s major.

- HWC 110 (Introduction to Humanities), HWC 111 (Introduction to Humanities - Honors), or HWC 150 (Civilization and the Individual)
- HWC 204 (Western Civilization I), HWC 205 (Western Civilization II), or HWC 206 (Contemporary Western Civilization)
- Western Civilization
- 424 Senior Seminar in Humanities
- HWC Three HWC courses numbered 300 and above (nine hours), chosen in consultation with an advisor, and focusing on a specific theme.

Justification
This minor field of study addresses the needs of students who seek to complement their major field of study with a solid grounding in the intellectual traditions and cultural practices of a particular area of world culture, or who wish to deepen and broaden their knowledge and understanding of a specific historical period. In addition, study in the humanities provides an excellent opportunity for students preparing for careers in the professions that require high standards of written and oral communication skills. Given its emphasis on text-based curriculum that encourages critical thinking, shared discussion, and written and oral analysis on significant topics, the Minor in Humanities prepares undergraduates to excel as they move forward into graduate or professional schools or the work force.

e. Changes to existing Major in Environmental Studies

**CURRENT MAJOR REQUIREMENT**

**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 and EVRN 141 (lab).

**PROPOSED**

**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 or EVRN 144, honors.
- Global Environment II: The Ecology of Civilization. Satisfied by EVRN 142 or EVRN 145, honors.

**JUSTIFICATION**

Requesting this change in the major was necessitated by changes in the courses involved, and these have also been submitted for consideration by the committee. Those changes simply took 140 (lecture) and 141 (lab) and combined them into one 5-credit course. The same was done with the second semester of the course sequence, 142 and 143. 141 and 143 were then changed to the honor’s sections of the 140 and 142 courses, respectively.

f. Changes to existing Minor in Environmental Studies

**CURRENT requirements for Principals and History and Culture regarding the Global Environment I and II courses only:**

**Principals of Environmental Studies.** Satisfied by 1 of the following options:
- Global Environment I. Satisfied by EVRN 140 Global Environmental I: The Discovery of Environmental Change (3) and EVRN 141 Global Environmental I: Interdisciplinary Laboratory (2)

**Environmental History and Culture.** Satisfied by 1 of the following options:
- Global Environment II. Satisfied by EVRN 142 Global Environmental II: The Ecology of Human Civilization (3) and EVRN 143 Global Environmental II: Interdisciplinary Laboratory (2)

**PROPOSED CHANGE:**

**Principals of Environmental Studies.** Satisfied by 1 of the following options:
- Global Environment I. Satisfied by EVRN 140 Global Environmental I: The Discovery of Environmental Change (5) or EVRN 144, Honors (5)

**Environmental History and Culture.** Satisfied by 1 of the following options:
- Global Environment II. Satisfied by EVRN 142 Global Environmental II: The Ecology of Human Civilization (5) or EVRN 145, Honors (5)

The other current options for these requirements will remain.

Justification
This change was necessitated by the fact that we are simultaneously requesting that the lecture and lab sections of our Global Environment courses be combined so that there are two 5-credit courses.

g. Changes to existing Major in Linguistics
Proposal
Linguistics will start offering 2 capstone courses that build on knowledge and expertise acquired during the course of the Linguistics curriculum. All majors will have to take either the proposed LING 420 Capstone: Research in Language Science which focuses on more experimental approaches to language or the proposed LING 421 Capstone: Typology – The Unity and Diversity of Human Language which focuses on more theoretical approaches to language (see our separate requests for LING 420 and 421). The capstone requirement is new and will reduce the number of elective credit hours for majors from 6 to 3. In addition, since LING 421 is a modified version of, and will replace, LING 322, LING 322 will no longer fulfill our “Form & Meaning” requirement. However, there are three other courses which fulfill that requirement.

Justification
These courses will allow students to apply their knowledge as they finish the major. They will also allow the department to assess the extent to which our curriculum provides students with a solid background.

h. Changes to existing Minor in Theatre
Requirements for the Minor

Theatre Minor Course Requirements

Students selecting this minor must complete each of the following:

**Theatre Core Knowledge and Skills.** Majors must complete courses in each of the following core areas:
- Theatre Practicum I. Satisfied by THR 101.
- Acting I. Satisfied by THR 106.
- Theatre Production. Satisfied by completion of one of the courses: THR 216, THR 220, THR 224.

Choose two of the following three courses:
- History of Theatre. Satisfied by THR 525
- History of Theatre II. Satisfied by THR 526
- History of U.S. Theatre and Drama. Satisfied by THR 528

**Theatre Required Electives.** Satisfied by 2 courses (6 hours) from the following:
- THR 302 Undergraduate Seminar in: _____
- THR 326 African Theatre and Drama
- THR 327 African-American Theatre and Drama
- THR 404 Children and Drama
- THR 405 Children and Media
- THR 527 Asian Theatre and Performance
- THR 528 History of U.S. Theatre and Drama
- THR 529 Race and the American Theatre
- THR 603 Theatre for Young Audiences
- THR 626 Myth and the Dramatist
- THR 725 Russian Theatre and Drama from Stanislavski and Chekhov to the Present

**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 12 hours from junior/senior courses (300+) in the minor.

Minor Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in all departmental courses (300+) in the minor. GPA calculations include all departmental courses in the field of study including F’s and repeated courses.

i. Changes to existing Major in Mathematics - BS

Proposed Changes
Current Requirements for BS in Mathematics  (The underlined section was approved by CUSA and CAC in Fall 2011, but does not appear in the current online catalog.)

Requirements for the B.S. Degree
First- and Second-Year Preparation
18 hours
MATH 121 Calculus I (5) or
MATH 141 Calculus I, Honors (5)
MATH 122 Calculus II (5) or
MATH 142 Calculus II, Honors (5)
MATH 223 Vector Calculus (3) or
MATH 243 Vector Calculus, Honors (3)
MATH 290 Elementary Linear Algebra (2) or MATH 291 Elementary Linear Algebra, Honors (2) MATH 320 Elementary Differential Equations (3) or MATH 220 Applied Differential Equations (3)

Core Requirements
12-13 hours
Linear Algebra: MATH 590 Linear Algebra (3) or MATH 790 Linear Algebra II (3)
Analysis: MATH 500 Intermediate Analysis (3) or MATH 765 Mathematical Analysis I (3)
Algebra: MATH 558 Introductory Modern Algebra (3) or MATH 791 Modern Algebra (3)
Statistics: MATH 526 Applied Mathematical Statistics I (3) or MATH 628 Mathematical Theory of Statistics (3) or
MATH 728 Statistical Theory (3) or DSCI 301 Statistics (4)

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

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

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

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

Minimum Major Requirements
42 hours

Applied Concentration
8 hours

General Education Requirements
49-49 hours
English, Argument and Reason, and Western Civilization (18) (These are the same as the requirements for the B.A. degree.)

Computer Science: EECS 138 (3) or EECS 168 (4)
Natural Science: 1 course with laboratory (4-5 hours) and one additional course (3-5 hours) in biological
science (NB), earth science (NE), or physical science (NP) (7-10)

*Humanities and Foreign Language:* 4 courses in humanities and foreign language, at least two (6 hours) of which must be in humanities (designated H). Students are encouraged to complete at least two courses in a foreign language (12)

*Social Sciences:* 2 courses designated S (6)

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

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

**List C Applied Concentration Courses**
- *Statistics:* MATH 605, MATH 611, MATH 624, ECON 817, ECON 818
- *Management Science and Operations Management:* SCM 310, DSCI 410
- *Finance:* FIN 310, FIN 410, FIN 415, FIN 420, FIN 425, MATH 630
- *Economics:* ECON 526, ECON 590, ECON 700, ECON 701, ECON 715, ECON 716
- *Biol.:* CHEM 516, CHEM 646, CHEM 648
- *Physics & Astronomy:* PHSX 313, PHSX 521, PHSX 531, ASTR 591, ASTR 592, PHSX 621, PHSX 631, PHSX 655, PHSX 671, ASTR 691, PHSX 741
- *Bioinformatics:* BINF 701, BINF 702
- *Curriculum & Instruction:* C&T 360, C&T 366, C&T 460

**Note:** A student using at least two Curriculum & Instruction courses for the applied concentration must complete PHSX 211 as one of the natural science courses and must complete at least one of the geometry courses MATH 559, MATH 660, or MATH 661.

Proposed Requirements for BS in Mathematics starting Fall 2013

**Proposed Requirements for the B.S. Degree**

**First- and Second-Year Preparation**
- 18 hours
- MATH 121 Calculus I (5) or MATH 141 Calculus I, Honors (5)
- MATH 122 Calculus II (5) or MATH 142 Calculus II, Honors (5)
- MATH 223 Vector Calculus (3) or MATH 243 Vector Calculus, Honors (3)
- MATH 290 Elementary Linear Algebra (2) or MATH 291 Elementary Linear Algebra, Honors (2)
- MATH 320 Elementary Differential Equations (3) or MATH 220 Applied Differential Equations (3) or MATH 221 Applied Differential Equations, Honors (3)

**Core Requirements**
- 12-13 hours
- *Linear Algebra:* MATH 590 Linear Algebra (3) or MATH 790 Linear Algebra II (3)
- *Analysis:* MATH 500 Intermediate Analysis (3) or MATH 765 Mathematical Analysis I (3)
- *Algebra:* MATH 558 Introductory Modern Algebra (3) or MATH 791 Modern Algebra (3)
- *Statistics:* MATH 526 Applied Mathematical Statistics I (3) or MATH 628 Mathematical Theory of Statistics

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(3) or
MATH 728 Statistical Theory (3) or DSCI 301 Statistics (4)

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

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

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

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

Minimum Major Requirements
42 hours

Applied Concentration
8 hours

**General Education Requirements**
Completion of the University Core Curriculum

**Writing:** ENGL 101 (3) or exemption; and ENGL 102 (3) or ENGL 105 (3) or exemption

**Computer Science:** EECS 138 (3) or EECS 168 (4) or EECS 169 (4)

**Natural Science:** 1 course with laboratory (4-5 hours) and one additional course (3-5 hours) in natural science other than mathematics (7-10)

**List A Sequences**
- MATH 627 Probability (3) and MATH 628 Mathematical Theory of Statistics (3)
- MATH 660 Geometry I (3) and MATH 661 Geometry II (3)
- MATH 727 Probability Theory (3) and MATH 728 Statistical Theory (3)
- MATH 765 Mathematical Analysis I (3) and MATH 766 Mathematical Analysis II (3)
- MATH 781 Numerical Analysis I (3) and MATH 782 Numerical Analysis II (3)
- MATH 790 Linear Algebra II (3) and MATH 791 Modern Algebra (3)

**List B Sequences**
- MATH 500 Intermediate Analysis (3) and MATH 646 Complex Variables and Applications (3)
- MATH 526 Applied Mathematical Statistics I (3) and MATH 605 Applied Regression Analysis (3)
- MATH 526 Applied Mathematical Statistics I (3) and MATH 611 Time Series Analysis (3)
- MATH 530 Mathematical Models I (3) and MATH 531 Mathematical Models II (3)
- MATH 540 Elementary Number Theory (3) and MATH 558 Introductory Modern Algebra (3)
- MATH 540 Elementary Number Theory (3) and MATH 791 Modern Algebra (3)
- MATH 558 Introductory Modern Algebra (3) and MATH 601 Algebraic Coding Theory (3)
- MATH 581 Numerical Methods (3) and MATH 591 Applied Numerical Linear Algebra (3)
- MATH 590 Linear Algebra (3) and MATH 790 Linear Algebra II (3)
- MATH 601 Algebraic Coding Theory (3) and MATH 791 Modern Algebra (3)
- MATH 605 Applied Regression Analysis (3) and MATH 611 Time Series Analysis (3)
- MATH 646 Complex Variable and Applications (3) and MATH 647 Applied Partial Differential Equations (3)
- MATH 646 Complex Variables and Applications (3) and MATH 765 Mathematical Analysis I (3)
- MATH 647 Applied Partial Differential Equations (3) and MATH 648 Calculus of Variations and Integral Equations (3)
- MATH 724 Combinatorial Mathematics (3) and MATH 725 Graph Theory (3)

**List C Applied Concentration Courses**
- Statistics: MATH 605, MATH 611, MATH 624, ECON 817, ECON 818
- Economics and Finance: ECON 526, ECON 590, ECON 620, ECON 700, ECON 701, ECON 715, ECON 716, FIN 310, FIN 410, FIN 415, FIN 420, FIN 425, MATH 630, SCM 310

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Biology: BIOL 350, BIOL 412, BINF 701, BINF 702, BIOL 743, **BIOL 747**
Chemistry: CHEM 516, CHEM 646, CHEM 648
Physics and Astronomy: PHSX 313, PHSX 511, PHSX 518, PHSX 521, PHSX 531, ASTR 591, ASTR 592, PHSX 621, PHSX 631, PHSX 655, PHSX 671, ASTR 691, **PHSX 711, PHSX 741**
Chemical and Petroleum Engineering: C&PE 211, C&PE 511, C&PE 521, C&PE 522, C&PE 750
Civil Engineering: CE 201, CE 300, CE 301, CE 310, **CE 311, CE 330, CE 461, CE 704**
Electrical Engineering and Computer Science: EECS 211, EECS 220, EECS 360, EECS 420, EECS 444, EECS 510, EECS 560, EECS 562, EECS 638, **EECS 644**, EECS 649, EECS 660, EECS 662, EECS 672, EECS 718, EECS 730, EECS 744
Mechanical Engineering: ME 201, ME 311, ME 312, **ME 321, ME 508, ME 520, ME 612, ME 682, ME 740**
Curriculum & Instruction: C&T 360, C&T 366, C&T 460

Notes:
A student using at least two Statistics courses for the applied concentration must complete MATH 627 and MATH 628 (or MATH 727 and MATH 728) as a List A sequence. (MATH 627, 628, 727 and 728 do not count for the applied concentration.) A student using at least two Curriculum & Instruction courses for the applied concentration must complete PHSX 211 as one of the natural science courses and must complete at least one of the geometry courses MATH 559, MATH 660, or MATH 661.

Courses used to satisfy the core requirements can also be used to complete List A and List B sequences. However, no course can be used for two List A or B sequences, and courses used for the Applied Concentration requirement cannot also be counted toward the 24 credit hours of advanced mathematics courses for the B.S. degree.

Some courses satisfying the sequence requirements are taught infrequently. More advanced courses can be substituted for lower level courses in many cases. Consult the mathematics department for expected course offerings and substitutions.

Proposed change in requirements for BS in Mathematics for current students. This is just to add options of courses satisfying certain requirements without removing any options.

Proposed Requirements for the B.S. Degree
First- and Second-Year Preparation
18 hours
MATH 121 Calculus I (5) or MATH 141 Calculus I, Honors (5)
MATH 122 Calculus II (5) or MATH 142 Calculus II, Honors (5)
MATH 223 Vector Calculus (3) or MATH 243 Vector Calculus, Honors (3)
MATH 290 Elementary Linear Algebra (2) or MATH 291 Elementary Linear Algebra, Honors (2)
MATH 320 Elementary Differential Equations (3) or MATH 220 Applied Differential Equations (3) or MATH 221 Applied Differential Equations, Honors (3)

Core Requirements
12-13 hours
Linear Algebra: MATH 590 Linear Algebra (3) or MATH 790 Linear Algebra II (3)
Analysis: MATH 500 Intermediate Analysis (3) or MATH 765 Mathematical Analysis I (3)
Algebra: MATH 558 Introductory Modern Algebra (3) or MATH 791 Modern Algebra (3)
Statistics: MATH 526 Applied Mathematical Statistics I (3) or MATH 628 Mathematical Theory of Statistics (3) or MATH 728 Statistical Theory (3) or DSCI 301 Statistics (4)

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

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

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

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

**Minimum Major Requirements**

42 hours

**Applied Concentration**

8 hours

**General Education Requirements**

46-50 hours

*English, Argument and Reason, and Western Civilization* (18) (These are the same as the requirements for the B.A. degree.)

*Computer Science:* EECS 138 (3) or EECS 168 (4)

*Natural Science:* 1 course with laboratory (4-5 hours) and one additional course (3-5 hours) in biological science (NB), earth science (NE), or physical science (NP). *Note:* natural science, other than mathematics (7-10)

*Humanities and Foreign Language:* 4 courses in humanities and foreign language, at least two (6 hours) of which must be in humanities (designated H). Students are encouraged to complete at least two courses in a foreign language (12) *Note:* A Satisfactory (S) grade in AEC 90 English Proficiency Test counts in place of two course in foreign language.

*Social Sciences:* 2 courses designated S (6)

**List A Sequences**

MATH 627 Probability (3) and MATH 628 Mathematical Theory of Statistics (3)

MATH 660 Geometry I (3) and MATH 661 Geometry II (3)

MATH 727 Probability Theory (3) and MATH 728 Statistical Theory (3)

MATH 765 Mathematical Analysis I (3) and MATH 766 Mathematical Analysis II (3)

MATH 781 Numerical Analysis I (3) and MATH 782 Numerical Analysis II (3)

MATH 790 Linear Algebra II (3) and MATH 791 Modern Algebra (3)

**List B Sequences**

MATH 500 Intermediate Analysis (3) and MATH 646 Complex Variables and Applications (3)

MATH 526 Applied Mathematical Statistics I (3) and MATH 605 Applied Regression Analysis (3)

MATH 526 Applied Mathematical Statistics I (3) and MATH 611 Time Series Analysis (3)

MATH 530 Mathematical Models I (3) and MATH 531 Mathematical Models II (3)

MATH 540 Elementary Number Theory (3) and MATH 558 Introductory Modern Algebra (3)

MATH 540 Elementary Number Theory (3) and MATH 791 Modern Algebra (3)

MATH 558 Introductory Modern Algebra (3) and MATH 601 Algebraic Coding Theory (3)

MATH 581 Numerical Methods (3) and MATH 591 Applied Numerical Linear Algebra (3)

MATH 590 Linear Algebra (3) and MATH 790 Linear Algebra II (3)

MATH 601 Algebraic Coding Theory (3) and MATH 791 Modern Algebra (3)

MATH 605 Applied Regression Analysis (3) and MATH 611 Time Series Analysis (3)

MATH 646 Complex Variable and Applications (3) and MATH 647 Calculus of Variations and Integral Equations (3)

MATH 646 Complex Variables and Applications (3) and MATH 765 Mathematical Analysis I (3)

MATH 647 Calculus of Variations and Integral Equations (3) and MATH 648 Calculus of Variations and Integral Equations (3)

MATH 724 Combinatorial Mathematics (3) and MATH 725 Graph Theory (3)

**List C Applied Concentration Courses**

*Statistics:* MATH 605, MATH 611, MATH 624, ECON 817, ECON 818

*Economics and Finance:* ECON 526, ECON 590, ECON 620, ECON 700, ECON 701, ECON 715, ECON 716, FIN 310, FIN 410, FIN 415, FIN 420, FIN 425, MATH 630, SCM 310

*Biological Science (NB):* BIOL 350, BIOL 412, BINF 701, BINF 702, BIOL 743, BIOL 747

*Chemistry:* CHEM 516, CHEM 520, CHEM 646,

*Physics and Astronomy:* PHSX 313, PHSX 511, PHSX 518, PHSX 521, PHSX 531, ASTR 591, ASTR 592, PHSX 621, PHSX 631, PHSX 655, PHSX 671, ASTR 691, PHSX 711, PHSX 741


*Chemical and Petroleum Engineering:* C&PE 211, C&PE 511, C&PE 521, C&PE 523

*Civil Engineering:* CE 201, CE 300, CE 301, CE 310, CE 311, CE 330, CE 461, CE 704

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Electrical Engineering and Computer Science: EECS 211, EECS 220, EECS 360, EECS 420, EECS 444, EECS 510, EECS 560, EECS 562, EECS 638, EECS 644, EECS 649, EECS 660, EECS 662, EECS 672, EECS 718, EECS 730, EECS 744

Mechanical Engineering: ME 201, ME 311, ME 312, ME 321, ME 508, ME 520, ME 612, ME 682, ME 740

Curriculum & Instruction: C&T 360, C&T 366, C&T 460

Notes: A student using at least two Statistics courses for the applied concentration must complete MATH 627 and MATH 628 (or MATH 727 and MATH 728) as a List A sequence. (MATH 627, 628, 727 and 728 do not count for the applied concentration.) A student using at least two Curriculum & Instruction courses for the applied concentration must complete PHSX 211 as one of the natural science courses and must complete at least one of the geometry courses MATH 559, MATH 660, or MATH 661.

Courses used to satisfy the core requirements can also be used to complete List A and List B sequences. However, no course can be used for two List A or B sequences, and courses used for the Applied Concentration requirement cannot also be counted toward the 24 credit hours of advanced mathematics courses for the B.S. degree.

Some courses satisfying the sequence requirements are taught infrequently. More advanced courses can be substituted for lower level courses in many cases. Consult the mathematics department for expected course offerings and substitutions.

Justification

The main change in the BS requirements is the change in the General Education requirements because of the new Core Curriculum. We continue to feel it is important for a career in mathematics to acquire basic skills in computer programming and to have a background in natural science, including experience of laboratory science. In addition, we feel that the writing instruction provided in ENGL 101 and ENGL 102 prepares our students best for the demands of written communication they will face. In particular, many of our majors are international students, and the established interface between the Applied English Center and the Freshman-Sophomore English program gives the best guarantee of successful writing development for international students.

Other changes in the BS requirements for Fall 2013 are in the specific lists of courses that satisfy certain requirements. These are:

- Addition of MATH 221 Applied Differential Equations, Honors to the alternatives for the Differential Equations requirement. (It was previously listed, but seems to have disappeared from the catalog.)
- Removal of DSIC 301 Statistics from the alternatives for the Statistics requirement. The intent of this requirement is for a calculus-based statistics course. In consultation with the School of Business we learned that the course does not actually use calculus, even though it has a calculus prerequisite. It was rare for a student to use that option.
- Explicit addition of higher level course substitutions in the Lists A and B of the sequence requirements. In the past, we handled these substitutions by hand, using the Major Certification Sheet or Major Substitution Form. With the increasing automation of requirement-checking via the Degree Progress Report, we find it better to list all known substitutions explicitly.
- Removal of MATH 530 – 531 as a List B sequence. We have not taught MATH 531 since 2001.
- Addition of MATH 605 – MATH 611 as a List B sequence. We want to allow students to use these statistics courses (which themselves have as prerequisite a calculus-based statistics course) for a sequence, even if they had chosen to complete MATH 627 – 628 instead of MATH 526 to meet the prerequisite.
- Merger of the Finance, Economics, and Management Science and Operations Management categories in the Applied Concentration requirement. We feel that the content of these courses is closely enough allied to make a natural concentration for our students. In particular, courses from these three areas support students who are preparing for a career in actuarial science.
- Removal of courses from the Applied Concentration List C because they are no longer offered.
- Addition of courses to the Applied Concentration List C because they satisfy the intent of the requirement. Most of these courses have been introduced (or renamed) since we last reviewed the list.

Changes in the BS requirements intended for current students.
We wish to make available to current students the additions to lists of courses satisfying the various requirements, described above, without deleting any of their options. In addition, we wish to make the following changes to reflect the intent and current implementation of our requirements. These are:

- Removal of the reference to principal courses in the natural science part of the general education requirements. It had never been our intention to restrict students to principal courses, but this had entered the catalog by mistake.
- Explicit statement that success on the AEC proficiency test can replace the two-course foreign language option of the Humanities and Foreign Language requirement. This has been our practice for many years, but was implemented using the Major Certification Sheet or Major Substitution Form. We hope that it can be programmed into the Degree Progress Report.
- Requirement that students using statistics courses for the Applied Concentration requirement must take MATH 627 – 628 (or MATH 727 – 728). This used to appear in the catalog, but disappeared in the move to the electronic catalog.
- Addition of the Applied Concentration in Curriculum & Instruction. This was approved by CUSA in Fall 2012, but does not appear in the current online catalog.

j. Changes to existing Major in Sociology

Our current residency requirement for the major is the minimum required by the College:

Our major requires 33 credits. Our current residency requirement reads “Satisfied by a minimum of 15 hours of KU resident credit in the major. At least 12 credit hours at the 300+ level, including SOC 310, SOC 510, and SOC 500, must be taken at KU.”

We would like to raise the 12 credit minimum to 15 credits.

Justification

We are seeing students applying to the major an increasing number of study abroad and KU online courses that count as “in residence” even though they are not actually taught by our KU Sociology faculty. We are concerned about quality control when students can satisfy a majority of their coursework in the major without being in our classrooms. We think a small step toward to re-balancing this situation would be to raise the bar on “resident courses” from 12 to 15.

k. Changes to existing Minor in Sociology

Our current residency requirement for the minor does not state explicitly the minimum required by the College:

“Our minor requires 18 credits. Our current residency requirement reads “The minor requires 18 credit hours of course work, including SOC 104 and at least 12 hours of sociology courses at the junior/senior level”

We propose to edit this statement to make the College requirement explicit:

The minor requires 18 credit hours of course work, including SOC 104 and at least 12 hours of sociology courses at the junior/senior level. At least 9 of the junior/senior credits must be earned in residence at KU.

Justification

We are not proposing a change in requirements as much as a change in how completely they are described.

l. Changes to existing Major and Minor in Global and International Studies

GIST UG majors and minors have to select from a set of course that fulfill a regional specialization requirement and a substantive specialization requirement. We are proposing changes in the divisional categories underneath the substantive specialization requirements. The previous divisions were as follows:

Global & International Studies Substantive Specialization. Students must take 3 courses in 1 of the specialization fields.

- Comparative Political & Social Systems (9 Required). Satisfied by completing 3 approved courses in comparative political and social systems.
The Global Economy (9 Required). Satisfied by completing 3 approved courses about the global economy.

Community Health & Development (9 Required). Satisfied by completing 3 approved courses about community health and development.

Culture, Ethnicity, and Belief (9 Required). Satisfied by completing 3 approved courses about culture, ethnicity, and belief systems.

Gender & Sexuality in the Global Context (9 Required). Satisfied by completing 3 approved courses about gender and sexuality in the global context.

The Global Environment (9 Required). Satisfied by completing 3 approved courses about the global environment.

The new divisions of the substantive specialization requirement for MAJORS and MINORS would be as follows:

- Comparative Political and Social Systems (9 Required). Satisfied by completing 3 approved courses in comparative political and social systems.
- International Business and the Global Economy (9 Required). Satisfied by completing 3 approved courses about international business and/or the global economy.
- Culture, Ethnicity, and Belief (9 Required). Satisfied by completing 3 approved courses about culture, ethnicity, and belief systems.
- Literature, Popular Culture and the Arts in the Global Context (9 Required). Satisfied by completing 3 approved courses about literature, popular culture, and/or the arts in the global context.
- Gender & Sexuality in the Global Context (9 Required). Satisfied by completing 3 approved courses about gender and sexuality in the global context.
- The Global Environment (9 Required). Satisfied by completing 3 approved courses about the global environment.

Furthermore, we would also like to make a change to the regional specialization requirements which currently states:

Regional Expertise. Majors must take 3 courses on one of the following regions of the world: Africa; the Middle East; Asia; Latin America and the Caribbean; Western Europe; and Russia, Eastern Europe and Central Asia. Of these 9 hours, a minimum of 6 must be at the 300 level or above. Six hours from a KU or KU-affiliated study-abroad program may be counted toward this requirement provided that students obtain prior approval from the undergraduate advisor.

We would like to add the following amendment:

Regional Expertise. Majors must take 3 courses on one of the following regions of the world: Africa; the Middle East; Asia; Latin America and the Caribbean; Western Europe; and Russia, Eastern Europe and Central Asia. Of these 9 hours, a minimum of 6 must be at the 300 level or above, and at least 3 of these must be taken from a regional overview course offered from the perspective of any number of disciplines. Six hours from a KU or KU-affiliated study-abroad program may be counted toward this requirement provided that students obtain prior approval from the undergraduate advisor.

We would also like to make the following modifications in options listed for the admission requirements/core courses:

Currently, these course options are listed as follows:

**Course Requirements**

1. Fourth-semester proficiency language course (or demonstrated proficiency).
2. Any 3 of the following general requirements for the major:
   ABSC 150 Community Leadership
ANTH 108/ANTH 109 or ANTH 308 Introduction to Cultural Anthropology
ECON 104/ECON 105 Introductory Economics or ECON 142/ECON 143 Principles of Microeconomics or
ECON 144/ECON 145 Principles of Macroeconomics
GEOG 100 World Regional Geography or GEOG 102 Principles of Human Geography
HIST 103 Environment and History
POLS 150/POLS 151 Introduction to Comparative Politics or POLS 170/POLS 171 Introduction to
International Politics
SOC 130/SOC 131 Comparative Societies

We would like to make the following minor alterations in the courses:

Course Requirements
1. Fourth-semester proficiency language course (or demonstrated proficiency).
2. Any 3 of the following general requirements for the major:
   ABSC 150 Community Leadership
   ANTH 108/ANTH 109 or ANTH 308 Introduction to Cultural Anthropology
   ECON 104/ECON 105 Introductory Economics or ECON 144/ECON 145 Principles of Macroeconomics
   GEOG 100 World Regional Geography or GEOG 102 Principles of Human Geography
   HIST 308 Key Themes in Modern Global History
   POLS 150/POLS 151 Introduction to Comparative Politics or POLS 170/POLS 171 Introduction to
   International Politics
   REL 106 Living Religions of the East or REL 107 Living Religions of the West
   SOC 130/SOC 131 Comparative Societies

This list should also match the courses printed under the subtitle “Global & International Studies Core
Knowledge and Skills,” which is located further down in the GIST catalog listing. They are, in fact, the
same group of courses.

II. STATE JUSTIFICATION FOR MAKING CHANGES. Give a brief, but complete, explanation of the
reasons for making the proposal.

Our reasoning behind the changes are as follows:

● Our topic specializations need to have a realistic number of choices (at least two per semester) to be
functional. At an earlier point in time, there were a number of faculty members in various disciplines
providing courses on community health and development. This is no longer the case. We are lucky to
have even one course per semester that fits into this substantive division, and even the ones that we
count are a bit of a stretch. Thus, at the current juncture, this requires us to remove the “health and
development” branch.

● Relatedly, we feel that a substantive specialization should not have more than two large sub-branches
beneath it. If a division is too broad, it ultimately defeats the logic of guiding students into a
“specialization.” This was clearly the case with the old “Culture, Ethnicity, and Belief Systems,” which
encapsulated more courses than could possibly be allowed to rationalize a “specialization” in any
reasonable sense of the word. Thus, it has been divided into two large branches that largely coincide
with a social science-humanities split. The old “C,E, and BS” now covers only the social science
understanding of such a specialization, and the humanities understanding of culture was channeled into
a new topic specialization called “Literature, Popular Culture and the Arts in the Global Context.”
Both divisions have a healthy number of options that fit the logic of the new division, but it allows for
a more coherent logic in the grouping of courses under each branch.

● In the previous version, one division was simply called “The Global Economy;” we have simply
expanded this slightly, and logically, to encapsulate all the great International Business courses that are
being offered but that didn’t have an explicit home in the previous divisional categories.

● Finally, similar to the logic regarding specializations above, we want to ensure that a regional
specialization in some way facilitates a special knowledge of the region as a whole. Since many
electives offered under these divisions focus on particular aspects of particular countries, we want to
ensure that, at least, one class covers the region/regional dynamics as a whole. Currently, for every
region, there is a class that meets this goal by an area studies course, or a history, political science, anthropology, or sociology course. Most, if not all, regions have multiple options in this regard.

- In regard to the admission requirements/core knowledge and skills courses, we wanted to remove any courses that weren’t being regularly offered—i.e. HIST 103 hasn’t been offered since fall of 2010—and courses that less obviously feed into a global and international focus—i.e. ECON 142/143. Furthermore, we wanted to add options that do meet our global and international focus and also might pick up additional general requirements from the KU Core and the existing system—i.e. REL 106 and REL 107.

Requirements for the B.A. Major

Global & International Studies Core Knowledge and Skills. Satisfied by completion of 3 courses from the following categories:

- ABSC 150 Community Leadership
- ANTH 108/ANTH 109 or ANTH 308 Introduction to Cultural Anthropology
- ECON 104/ECON 105 Introductory Economics or ECON 142/ECON 143 Principles of Microeconomics or ECON 144/ECON 145 Principles of Macroeconomics
- GEOG 100 World Regional Geography or GEOG 102 Principles of Human Geography
- HIST 103 Environment and History
- POLS 150/POLS 151 Introduction to Comparative Politics or POLS 170/POLS 171 Introduction to International Politics
- SOC 130/SOC 131 Comparative Societies

Second Language. Satisfied by completing 3 hours beyond the CLAS B.A. degree requirements (300 level or above). Students with native proficiency in a language other than English may take one course in a third language or one upper-division language course (300 level or higher) taught in their native language. In the case of languages not offered beyond the fourth semester at KU, an additional semester course addressing the culture and society of the region in which the language is spoken satisfies the requirement.

Seminar in... Satisfied by: GIST 698 or GIST 699.

Regional Expertise. Majors must take 3 courses on one of the following regions of the world: Africa; the Middle East; Asia; Latin America and the Caribbean; Western Europe; and Russia, Eastern Europe and Central Asia. Of these 9 hours, a minimum of 6 must be at the 300 level or above. Six hours from a KU or KU-affiliated study-abroad program may be counted toward this requirement provided that students obtain prior approval from the undergraduate advisor.

- Africa (9 Required). Satisfied by completing 3 approved courses about Africa.
- The Middle East (9 Required). Satisfied by completing 3 approved courses about the Middle East.
- Asia (9 Required). Satisfied by completing 3 approved courses about Asia.
- Latin America & the Caribbean (9 Required). Satisfied by completing 3 approved courses about Latin America and the Caribbean.
- Western Europe (9 Required). Satisfied by completing 3 approved courses about Western Europe.
- Russia, Eastern Europe, & Central Asia (9 Required). Satisfied by completing 3 approved courses about Russia, Eastern Europe and Central Asia.

Global & International Studies Substantive Specialization. Students must take 3 courses in 1 of the specialization fields.
Comparative Political & Social Systems (9 Required). Satisfied by completing 3 approved courses in comparative political and social systems. Approved courses available at the Center for Global and International Studies in 318 Blake.


Community Health & Development (9 Required). Satisfied by completing 3 approved courses about community health and development. Approved courses available at the Center for Global and International Studies in 318 Blake.

Culture, Ethnicity, and Belief (9 Required). Satisfied by completing 3 approved courses about culture, ethnicity, and belief systems. Approved courses available at the Center for Global and International Studies in 318 Blake.


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 18 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.

Graduation Plan
With careful planning and commitment to a full-time course load, you can graduate in 4 years. Download a sample 4-year plan for global and international studies.

Requirements for the Minor
Students selecting this minor must complete the following:

GIST Minor Core Requirements

GIST Regional Expertise. Global & International Studies Regional Expertise Requirement. Students must take 2 courses on 1 of the following regions of the world: Africa; the Middle East; Asia; Latin America and the Caribbean; Western Europe; and Russia, Eastern Europe and Central Asia. Of these 9 hours, a minimum of 6 must be at the 300 level or above. 6 hours from a KU or KU-affiliated study abroad program may be counted toward this requirement provided that students obtain prior approval from the undergraduate advisor. A list of the courses that satisfy the requirement by region is available at the Center for Global and International Studies in 318 Blake. Additional courses may be appropriate to fulfill the Regional Expertise and the Substantive Specialization requirement if approved by the Center for Global and International Studies.
The Middle East. Satisfied by completing 3 approved courses about the Middle East. Approved courses available at the Center for Global and International Studies in 318 Blake.
Latin America & the Caribbean. Satisfied by completing 3 approved courses about Latin America and the Caribbean. Approved courses available at the Center for Global and International Studies in 318 Blake.
Western Europe. Satisfied by completing 3 approved courses about Western Europe. Approved courses available at the Center for Global and International Studies in 318 Blake.

GIST Substantive Specialization
Global & International Studies Substantive Specialization Requirement. Students must take 2 courses in 1 of the specialization fields.

Comparative Political & Social Systems. Satisfied by 3 approved courses in comparative political and social systems. Approved courses available at the Center for Global and International Studies in 318 Blake.
Community Health & Development. Satisfied by 3 approved courses about community health and development. Approved courses available at the Center for Global and International Studies in 318 Blake.
Culture, Ethnicity, and Belief. Satisfied by completing three approved courses about culture, ethnicity, and belief systems. courses available at the Center for Global and International Studies in 318 Blake.

Global & International Studies Minor Foreign Language

Global & International Studies Foreign Language Course. Students are required to satisfy the CLAS Bachelor of Arts degree foreign language requirement. This may be done in 1 of the following ways: (1) pass the proficiency exam in 1 foreign language; (2) complete a fourth-semester-level course in 1 foreign language; or (3) complete any foreign language course that has a fourth-semester-level course as a prerequisite.

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 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 courses in the field of study including F’s and repeated courses.

Modification Proposal

Regional Expertise Requirement (choose 3 courses from one region)

1. Africa
   AAAS 103: Introduction to Africa
   AAAS 105/HIST 104: Introduction to African History (3)
   AAAS 160: Introduction to West African History (3) NW / H
   AAAS 300: African Traditional Religion and Thought (3)
   AAAS 305/307: Modern African History (3)
   AAAS 334: Introduction to African Dance Theatre (2) NW / U
   AAAS 340: Women in Contemporary African Literature (3)
   AAAS 470: Language and Society in Africa (3)
   AAAS 542/REL 535: The History of Islam in Africa (3) NW / H / W
   AAAS 554: Contemporary Health Issues in Africa (3) S
   AAAS 600: Politics in Africa (3) NW / S
   ECON 587: Economic Development of Africa (3) S
   FREN 432: Francophone African Literature (3) NW / H / W
   POLS 665: Politics in Africa (3) NW / S

2. The Middle East
   AAAS 102: Arabic and Islamic Studies (3)
   AAAS 303: Peoples and Cultures of North Africa and the Middle East (3) NW / S
   AAAS 349: Islam (3) NW / H / W
   AAAS/ANTH 372: Religion, Power, and Sexuality in Arab Societies (3)
   AAAS 415: Women and Islam (3) HW
   AAAS 433: Islamic Literature (3) NW / H / W
   AAAS 543: Language and Culture in Arabic-Speaking Communities (3)
   AAAS 545: Unveiling the Veil (3) NW / H
   GIST 503: Topics in Middle East Studies (3)
   HIST 328: The Modern Middle East (3) H
   HIST 343: The Holocaust in History (3) H
   POLS 661: Politics of the Middle East (3) NW / S / W
   JWSH 311: Narratives of Jewish Life (3) HL / H
   JWSH 327: Jewish Secular Culture (3) HL / H
   REL 557: Modern Islamic Reform Movements (3) H
   SOC 532: Sociology of the Middle East (3)

3. Asia
   ANTH 364: People of Japan and Korea
   ANTH 293/EALC 130: Myth, Legend, and Folk Beliefs in East Asia (3) NW / H / W
   ANTH 370: Peoples and Cultures of the Pacific (3) NW / S / W
   COMS 557: East Asian Communication (3) S
   EALC 105/REL 106: Living Religions of the East (3) HR / NW / H / W
   EALC 317: Contemporary Japanese Literature in Translation: 1945-Present (3) HW
   EALC 318: Modern Chinese Literature in Translation (2-3) HW
   EALC 319: Contemporary Chinese Literature in Translation (3)
   EALC 330: Chinese Culture (3) NW / H / W
   EALC 380: Popular Cultures of East Asia (3) NW / H
   EALC 410: The Culture of Play in Japan (3) NW / N / W
EALC 520/HIST 640: Entrepreneurship in East Asia (3) NW / H
EALC 543/FMS 543: Contemporary Japanese Film (3) NW / H
EALC 555/REL 555: Buddhists and Buddhism in China (3)
EALC 575: Love, Sexuality and Gender in Japanese Literature (3) H
EALC 580: Popular Cultures of East Asia (3) NW / H
EALC 584/HIST 584: Modern China (3) NW / H / W
EALC 585/POLS 668: Reform in Contemporary China (3) NW / H / W
EALC 656/POLS 656: Government and Politics of East Asia (3) NW / S / W
EALC 678/POLS 678: Chinese Foreign Policy (3) SW
ECON 586: Economic Issues in China (3) S
HIST 118: History of East Asia (3) NW / H / W
HIST 398: Introduction to History of Japan: Anime to Zen (3) NW / H / W
HIST 399: The Samurai (3)
HIST 603: History of Tibet (3) NW / H
IBUS 425: Business in China (3)
REL 360: Buddhist Tradition in Asia (3) NW / H /
REL 404: Gods and Goddesses of South Asia (3)
REL 507: Religion in India (3) NW / H / W
REL 509: Religion in Japan (3)

4. Latin America and the Caribbean
AAAS 301: Portrait of a Third World Nation-Haiti
ANTH 379/LAA 334/634: Indigenous Traditions of Latin America (3) NW / S / W
ANTH 562: Mexamerica (3) S
FMS 316: Cinemas of the Southern Cone: Argentina, Chile, and Uruguay (3) H
GEOG 591: Geography of Latin America (3) SC / S / W
HIST 120: Colonial Latin America (3)
IBUS 415: Business in Latin America (3)
LAA 100: Latin American Culture and Society (3) SC / S
LAA 332/333: Language and Society in Latin America (3) NW / S
LAA 503: Race, Gender, Ethnicity, and Nationalism in Latin America (3) NW / H

5. Western Europe
ECON 536: Economic Issues of the European Union
ENGL 492: The London Review (3) H
ENGL 530/EURS 512: Irish Literature and Culture: _____ (3) H
EURS 302: European Culture and Society 1945 to Present:
EURS 430: European Civilization in World Context: _____ (3) HL / H
EURS 435: Islam in Europe (3) H
EURS 503: Europe Today (3) S
EURS 604: The European Union (3) H
FREN 152: France and the French (3) HL / H
GERM 120: German Classics in English Translation: _____ (3) HW
GERM 124/125: German Cinema in Context (3) HL
GERM 324: Magic, Monsters and the Occult in German Literature (3) HL
GERM 328: Germany in the Arts (3)
GERM 332: Berlin in German Culture (3)
GERM 424: German Cinema in Context (3) U
HIST 112: Introduction to British History (3) H
HIST 115: Europe 1789-Present (3)
HIST 321/WGSS 321: From Mystics to Feminists: Women's History in Europe 1600 to the Present (3) HT
HIST 527: Recent European History, 1870 to the Present (3)
HIST 548: British History, 1832-Present (3)
HIST 558/REL 558/559: Religion in Britain Since the Reformation: A Survey (3) H
IBUS 305: Business, Culture & Society: Western Europe (3)
6. Russia, Eastern Europe and Eurasia

HIST 117: Russia, an Introductory History (3) HT / H / W
HIST 564: Medieval Russia (3) H
HIST 565: Imperial Russia and the Soviet Union (3) HW
IBUS 304: Business, Culture & Society: Russia & Eastern Europe (3)
POLS 654: Politics and Government of Russia and the Central Eurasian States (3) SW
REES 110/111: Understanding Russia and Eastern Europe (3) SC / S
REES 220/221: Societies and Cultures of Eurasia (3) NW / S
REES 485/685: War and Peace in Russian Culture (3) HW
REES 510: Understanding Central Asia (3) NW / S / W
REES 512: Siberia: Yesterday and Today (3) NW / H / W
REES 513: Siberia: Russia’s Eastern Frontier (3)
REES 573: Borderland Between Russia & Europe (3) HW
REES 574: Ethnicity and Nationalism in Eastern Europe (3) HW
REES 687: Biography of a City: St. Petersburg (3) H
SLAV 140/141: Introduction to Russian Culture (3) HT / H / W
SLAV 144/145: Survey of Russian Literature in Translation (3) HL / H / W
SLAV 148: Introduction to Slavic Folklore (3) HL / H / W
SLAV 316: The Peoples and Cultures of Southeastern Europe Through Film (3) HL / H
SLAV 506: West Slavic Literature and Civilization (Polish and Czech) (3) HW
SLAV 510: The Russian Literary Genius (3) HW
SLAV 626: Cultural Impact of the Ottoman Empire on the Southern Slavs (3)
SLAV 664: Soviet Russian Literature: 1930-1990 (3) HW

Substantive Specialization Requirement (choose 3 courses from one area of specialization)

1. Comparative Systems

AMS 332: The United States in Global Context
AMS 534: Comparative Racial and Ethnic Relations (same as AAAS 510 & SOC 534)
ANTH 160/162/360: The Varieties of Human Experience (3) NW / S / W
ANTH 543: The Anthropology of Food and Nutrition (3)
ANTH 570: Anthropology of Violence (3)
ANTH 663: Population Dynamics (3)
ANTH 690: Social Construction of the Self (3)
EURS 604: The European Union (3) H
GEOG 377: Urban Geography (3) H
GEOG 370: Introduction to Cultural Geography (3) H
HIST 303: Sin Cities (3)
HIST 308: Key Themes in Modern Global History (3)
HIST 314: Globalization: History and Theory (3)
HIST 591: Food in History: West and East (3) HW
HIST 636: Agriculture in World History (3) H
POLS 370: Contemporary Issues in International Politics (3)
POLS/WGSS 562: Women and Politics (3) S
POLS 563: Comparative Political Economy (3) S
POLS 564: Elections and Political Parties Around the World (3) S
POLS 645: Corruption, Crisis and Scandal (3)
POLS 660: Politics and Problems of Developing Countries (3)
POLS 663: Protest and Revolution (3) S
POLS 672: International Political Economy (3)
POLS 679: International Conflict (3) S
POLS 680: International Relations in Political Philosophy (3) S
POLS 684: International Law: The State and the Individual (3) S
POLS 685: International Law: Laws of Armed Conflicts (3) S
REL 667: Religious Perspectives on War and Peace (3) H
SOC 312: Population and Society (3)
2. International Business and the Global Economy
ANTH 560: Introduction to Economic Anthropology
ANTH 583: Love, Sex, and Globalization (3) S
EALC 520/HIST 640: Entrepreneurship in East Asia (3) NW / H
ECON 505: History of Economic Analysis (3)
ECON/EVRN 550: Environmental Economics (3)
ECON 582: Economic Development (3) S
ECON 586: Economic Issues in China (3) S
ECON 587: Economic Development of Africa (3) S
ECON 604: International Trade (3) S
ECON 605: International Finance (3) S
ECON 610: Resource Economics and Environmental Policy (3)
HIST 314: Globalization: History and Theory (3)
IBUS 304: Business, Culture & Society: Russia & Eastern Europe (3)
IBUS 305: Business, Culture & Society: Western Europe (3)
IBUS 410: Introduction to International Business (3)
IBUS 415: Business in Latin America (3)
IBUS 425: Business in China (3)
IBUS 462: Comparative and Cross-Cultural Management (3)
IBUS 480: International Management (3)
POLS 563: Comparative Political Economy (3) S
POLS 672: International Political Economy (3)
SOC 521: Wealth, Power and Inequality (3)
SOC 524: Sociology of the Economy (3) S
SOC 529: Globalization (3)

3. Culture, Ethnicity, and Belief Systems
AAAS 102: Arabic and Islamic Studies (3)
AAAS 300: African Traditional Religion and Thought (3)
AAAS 349/REL 350: Islam (3) NW / H / W
AAAS/ANTH 372: Religion, Power, and Sexuality in Arab Societies (3)
AAAS 415: Women and Islam (3) HW
AAAS 433: Islamic Literature (3) NW / H / W
AAAS 542/REL 535: The History of Islam in Africa (3) NW / H / W
AAAS 543: Language and Culture in Arabic-Speaking Communities (3)
AAAS 545: Unveiling the Veil (3) NW / H
ANTH 293/EALC 130: Myth, Legend, and Folk Beliefs in East Asia (3) NW / H / W
ANTH 320/321: Language in Culture and Society, Honors (3) SC / S
ANTH 379/LAA 634: Indigenous Traditions of Latin America (3) NW / S / W
ANTH 484: Magic, Science, and Religion (3) NW / S / W
ANTH 603: Shamanism Past and Present (3) S
EALC 105/REL 106: Living Religions of the East (3) HR / NW / H / W
EALC 330: Chinese Culture (3) NW / H / W
EALC 555/REL 555: Buddhists and Buddhism in China (3)
EURS 435: Islam in Europe (3) H
JWSH 311: Narratives of Jewish Life (3) HL / H
JWSH 327: Jewish Secular Culture (3) HL / H
LAA 332/333: Language and Society in Latin America (3) NW / S
LAA 503: Race, Gender, Ethnicity, and Nationalism in Latin America (3) NW / H
REL 325: Introduction to Judaism (3)
REL 341: Mysticism (3) H
REL 345: Christianity (3) H
REL 360: Buddhist Tradition in Asia (3) NW / H / W
REL 404: Gods and Goddesses of South Asia (3)
REL 406: Reading Asian Religious Classics (3) H
REL 477: Gender and Religion (3) H
REL 507: Religion in India (3) NW / H / W
REL 509: Religion in Japan (3)
REL 557: Modern Islamic Reform Movements (3) H
REL 667: Religious Perspectives on War and Peace (3) H
REES 574: Ethnicity and Nationalism in Eastern Europe (3) HW

4. Literature, Popular Culture and the Arts in Global Context
AAAS 334: Introduction to African Dance Theatre (2) NW / U
AAAS 340: Women in Contemporary African Literature (3)
AAAS 355/THR 326: African Theater and Drama (3)
AAAS 433: Islamic Literature (3) NW / H / W
EALC 317: Contemporary Japanese Literature in Translation: 1945-Present (3) HW
EALC 318: Modern Chinese Literature in Translation (2-3) HW
EALC 319: Contemporary Chinese Literature in Translation (3)
EALC 380/580: Popular Cultures of East Asia (3) NW / H
EALC 410: The Culture of Play in Japan (3) NW / N / W
EALC 543/FMS 543: Contemporary Japanese Film (3) NW / H
EALC 575: Love, Sexuality and Gender in Japanese Literature (3) H
ENGL 492: The London Review (3) H
ENGL 530/EURS 512: Irish Literature and Culture: _____ (3) H
FREN 432: Francophone African Literature (3) NW / H / W
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 316: Cinemas of the Southern Cone: Argentina, Chile, and Uruguay (3) H
GERM 120: German Classics in English Translation: _____ (3) HW
GERM 124/125: German Cinema in Context (3) HL
GERM 324: Magic, Monsters and the Occult in German Literature (3) HL
GERM 328: Germany in the Arts (3)
GERM 332: Berlin in German Culture (3)
GERM 424: German Cinema in Context (3) U
REL 406: Reading Asian Religious Classics (3) H
REES 485/685: War and Peace in Russian Culture (3) HW
SLAV 144/145: Survey of Russian Literature in Translation (3) HL / H / W
SLAV 148: Introduction to Slavic Folklore (3) HL / H / W
SLAV 316: The Peoples and Cultures of Southeastern Europe Through Film (3) HL / H
SLAV 506: West Slavic Literature and Civilization (Polish and Czech) (3) HW
SLAV 510: The Russian Literary Genius (3) HW
SLAV 664: Soviet Russian Literature: 1930-1990 (3) HW

5. Gender and Sexuality in Global Context
AAAS 340: Women in Contemporary African Literature (3)
AAAS/ANTH 372: Religion, Power, and Sexuality in Arab Societies (3)
AAAS 415: Women and Islam
ANTH 389/WGSS 389: The Anthropology of Gender: Female, Male, and Beyond (3) NW
ANTH 583/WGSS 583: Love, Sex, and Globalization (3) S
EALC 575: Love, Sexuality and Gender in Japanese Literature (3) H
HIST 321/WGSS 321: From Mystics to Feminists: Women's History in Europe 1600 to the Present (3) HT
HIST 649/WGSS 549: History of Feminist Theory (3) H
POLIS/WGSS 562: Women and Politics (3) S
REL 477: Gender and Religion (3) H
SOC 450: Gender and Society (3) S
WGSS 201/202: Women's Studies: An Interdisciplinary Introduction (3) SC / S
WGSS 333: The Politics of Physical Appearance (3) S
WGSS/POLS 600: Contemporary Feminist Political Theory (3)
m. Changes to Existing Major in Germanic Languages & Literatures

**Hours required: 30**

**Required courses**
After completion of German 202: Intermediate German II, students will need to complete 16 credits as follows:

- GERM 301 High Intermediate German I (3)
- GERM 302 High Intermediate German II (3)
- GERM 315 German Literature and the Modern Era (3)
- GERM 316 Discussion Section: German Literature and the Modern Era (1)
- GERM 401 Advanced German I (3)
- GERM 580 Senior Capstone Course: German-Speaking Europe Today (3)

GERM 315 and GERM 316 must be completed before students can take a course beyond GERM 402 (except GERM 444 and GERM 462).

Admission to 400- and 500-level courses after GERM 402 (except GERM 444 and GERM 462) without completion of GERM 315 and GERM 316 is with permission of the Undergraduate Advisor only.

**Elective courses**
A minimum of 14 credit hours at the 300, 400, and 500 levels must be completed beyond the required courses. 12 of these credit hours must be at the 400 or 500 level. In exceptional cases, undergraduates may take courses at the 600 level with permission of the Undergraduate Advisor and the instructor.

With permission of the Undergraduate Advisor, 6 credit hours at the 300, 400, or 500 levels may be counted toward the major by completing two approved courses offered by other departments with significant content related to German-speaking Europe. A 600-level course may be counted with approval of the Undergraduate Advisor.

**Residency Requirement.** At least 15 hours of coursework at the 300, 400, and 500 levels, including the senior capstone course, GERM 580, must be completed in residence at KU.

**Department of Germanic Languages & Literatures Proposed Undergraduate Curriculum November 15, 2012**

**Current requirements for the B.A. major in Germanic Languages and Literatures**

**Major**
First- and Second-Year Preparation: Language Proficiency Sequence: Language Proficiency Sequence

- GERM 104 [Elementary German I], 108 [Elementary German I], 212 [Intermediate German II], and 216 [Intermediate German II] should be completed as early as possible.
After GERM 216, the major requires 30 hours, 300 and above:

4 required intermediate core courses (12 hours), including

- 2 intermediate composition courses selected from
  GERM 340 Deutsche Grammatik [German Grammar, offered in our Summer Language Institutes in Eutin and Holzkirchen]
  GERM 344 German History and Writing Practice
  GERM 348 German Culture and Writing Practice

- 2 introductory literature courses selected from
  GERM 400 Introduction to German Literary Masterpieces [offered in our SLI in Holzkirchen]
  GERM 408 Introduction to German Literature I
  GERM 416 Introduction to German Literature II

5 required advanced courses 500 and above (15 hours), including

- 6 hours of literature
  - elective course 300 or above (3 hours)

n. Changes to Existing Minor in Germanic Languages & Literatures
The minor provides students with a comprehensive introduction to the language and cultural forms of the German-speaking Europe, including literature, the arts, history, business, and politics.

**Hours required: 18**

**Required courses**
After completion of German 202: Intermediate German II, students will need to complete the following two courses:

- GERM 301 High Intermediate German I (3)
- GERM 302 High Intermediate German II (3)

**Elective courses**
12 additional hours at the 300, 400, and 500 levels. GERM 315 and GERM 316 are strongly encouraged because they are prerequisites for courses above GERM 402 (except GERM 444 and GERM 462).

One approved 3-credit course offered by another department or program and with significant content related to German-speaking Europe (300-500 level) may be counted toward the German minor. A 600-level course may be counted only with approval of the Undergraduate Advisor.

At least 9 credits at the 300 level and above must be acquired in residence at KU.

**Current Minor Requirements**
After completion of GERM 216, the minor requires 18 hours, 300 and above:

- 2 composition courses selected from GERM 340, GERM 344, and GERM 348
- 2 introductory literature courses selected from GERM 400, GERM 408, and GERM 416
- 2 electives numbered 300 or above, for example:
  - GERM 352 Business German
  - GERM 444 German Conversation for Everyday Use

  Advanced literature, for example:
  - GERM 572 German Literature from 1805-1890
  - GERM 576 German Literature from 1890 to the Present
GERM 616 Topics in German Literature: _____

Advanced language, for example:
GERM 618 Topics in German Language and Linguistics: _____
GERM 626 Idiomatic Usage in Modern Colloquial and Literary German
GERM 630 Advanced German Grammar

Cultural studies, for example:
GERM 588 Deutsche Kulturkunde I
GERM 590 Deutsche Kulturkunde II
GERM 620 Topics in German Culture and Folklore: _____

CURRENT DEPARTMENTAL HONORS REQUIREMENTS

Departmental Honors. To qualify for the B.A. in German with Honors, students must have a minimum grade point average of 3.25 overall and 3.5 in German at graduation. Students can earn Departmental Honors in German by completing an honors research project during their final year at the University of Kansas. Topics are selected in consultation with the faculty project adviser from Germanic Languages & Literatures. Applications for Departmental Honors must be submitted by the end of the first week of classes, normally during the fall of senior year. Upon acceptance of an application, the student registers for the GERM 598-GERM 599 sequence. The student presents the completed research project to the project advisor and two other members of the Departmental Honors Committee about one month before concluding his or her final semester at KU. A grade of B or higher in GERM 598 and 599 is required for Departmental Honors. GERM 598 and 599 may not be used to satisfy other course requirements.

PROPOSED DEPARTMENTAL HONORS REQUIREMENTS

Departmental Honors in German

To graduate with honors in German, an undergraduate must demonstrate an ability to work independently and critically in language and literature. To begin the program, students must consult the departmental honors adviser before the senior year and submit a departmental honors intent form.

Candidates must be eligible to take courses numbered 500 and above. To qualify for the B.A. in German with honors, the student must have a minimum grade-point average of 3.25 overall and 3.5 in German at graduation and complete the following requirements:

- The requirements for the major (see above) must include among the required 30 hours one enrollment (3 hours) in German courses at the 700 level or above with a grade of B or higher. This requirement may not be met by enrollment in GERM 753 Investigation and Conference.
- In addition to the requirements for the major, the student must enroll in 3 hours of GERM 753 Investigation and Conference with a faculty member of the student’s choice, working in an area of mutual interest. The student prepares a research project upon which the course grade largely rests. The research project may not be used to satisfy other course requirements. A grade of B or higher in GERM 753 is required for completion of the honors program.
- Honors candidates also participate in an honors examination with 3 members of the faculty, held before the end of the student’s last semester of academic work. In addition to the research project, other topics in German studies may be discussed.

JUSTIFICATION
We offer our students a diverse and challenging program in the language and cultural forms of German-speaking Europe, including literature, the arts, history, business, and politics. Our program is characterized by personalized advising, interdisciplinary flexibility, co-curricular activities, and opportunities to conduct independent research and to study and undertake internships abroad. Each student’s progress toward his or her goal will be monitored on a regular basis and by a variety of means.¹

Our courses at the 100, 200, and 300 levels emphasize student involvement with the aim of developing students’ use of the German language, including the ability to comprehend, interpret, and produce spoken, written, and multimedia texts in different genres. Cultural topics are integrated into instruction in the first semester. 100-level courses focus on everyday topics, 200-level courses continue exploring these topics and introduce students to short literary and non-literary texts, and students at the 300-level and above are intensively engaged with analyzing and discussing German literature, films, historical texts, and journalism. At the 400 and 500 levels, survey courses provide students with a broader perspective on German cultural traditions, while other advanced courses often have a thematic focus. Courses taken in departments such as the History of Art, Philosophy, Political Science, Slavic Languages & Literatures, Sociology, and Theatre will enhance students’ study of the language and culture of German-speaking Europe.

All of our courses except GERM 315: German Literature and the Modern Era are taught in German. Majors will have the option of taking two approved courses offered by other departments that are taught in English and include significant content related to German-speaking Europe.

Both the German major and minor can be combined with majors and minors in other departments. Many students take advantage of this opportunity and combine their study of German with Linguistics, Business, Philosophy, European Studies, and History, for example.

Students who have already declared a German major or minor will have the option of completing the requirements in effect prior to Fall 2013. These students will need to meet with an Undergraduate Advisor to ensure that all outstanding requirements can be met. Students who declare a major or minor starting in Fall 2013 must complete the new degree requirements.

I. Reports, guidelines, and programs informing proposed curriculum
   • 2012 Language Consultancy Working Group Preconvention Workshop, held in conjunction with annual MLA annual conference, attended by Vanchena and Brown. Focus: curriculum development in the foreign language department, learning goals and pedagogy; collaboration and governance: transforming the two-tiered system.
   • German Studies Association Guidelines for Curricula in German Studies at Universities in North America, https://www.thegsa.org/resources/curriculum.html.
   • American Association of Teachers of German, http://www.aatg.org/: conferences, Advocacy Toolkit, and networking resulting from Vanchena’s participation in first year (2001) of Transatlantisches interkulturelles Nachwuchsförderungsprogramm Deutsch als Fremdsprache, a program organized by the AATG. Goal of TraiNDaF: develop a strong leadership cadre from different types of institutions who will inform and develop other colleagues in their region of the U.S.
   • Review of undergraduate German programs at other institutions

II. Institutional factors informing proposed curriculum
   • Review of curricula in other KU departments

¹ We are currently assessing undergraduate writing. We are also devising a senior survey and exit interview, to be required in the final semester for all students with a major or minor in German.
• Discussions during AY 2011-12 with at least 60 undergraduate German majors and minors and students interested in pursuing a German major or minor
• CLAS wish to see capstone course in each department
• Bold Aspirations: strengthen recruitment, teaching, and mentoring to prepare undergraduate students for lifelong learning, leadership, and success
  o redesign courses to enhance student learning
  o promote active learning, encourage development of courses that take advantage of new pedagogical methods and IT
  o enhance experiential learning opportunities
  o invest in first-year intellectual experiences by developing a topical, discussion-based first-year seminar
  o Strategic Initiatives
  o Reform of General Education requirements
• Spreadsheet created by Marcia Powers, CLAS, containing information on all GLL course offerings and enrollments Fa95 to Sp12. This data was useful in identifying courses that have not been offered in at least 4 years (and whose numbers were therefore available for other courses) and courses that have been offered since infrequently Fa95 and could therefore be deleted from the catalog.
• Discussions with Karen Ledom, Administrative Director, Student Academic Services

III. Goals for proposed curriculum
• Rethink answer to “Why study Germanic languages and literatures?” (online catalog, http://www2.ku.edu/~distinction/cgi-bin/6122), shifting emphasis from “Because understanding the language, literature, and culture of Central Europe is essential for our history and our future” to thinking in terms of how translingual competence and transcultural competence (MLA) enable our students to participate actively and productively in our increasingly global world.
• Develop a German Studies curriculum that moves away from the traditional language and literature approach and gives students a more contemporary, diverse, and challenging program in the language and cultural forms of German-speaking Europe, including literature, the arts, history, business, and politics.
• Allow interdisciplinary flexibility by allowing courses taught in English outside the department but with significant content related to German-speaking Europe to count toward the major and minor
• Offer one course in English that not only counts toward the new major and minor but is also attractive to or fulfills requirements for other degree programs, which could help our overall enrollment.
• Bring major and minor more into line with other KU undergraduate degrees by focusing on courses at the 300, 400, and 500 levels and allowing undergraduates to take courses at the 600 level only in exceptional cases.
• Develop a more clearly defined sequence of courses at the advanced intermediate and advanced levels (300- to 500-level) to help ensure continued development of multiple literacies through the comprehension and production of literary and non-literary spoken, written, and multimedia texts in cultural contexts, with an emphasis in advanced courses on expressive functions of German, grammatical structures, and acquisition of vocabulary.
• Delete or change outdated courses that do not reflect current best practices in the discipline.
• Develop true capstone course for majors (currently, all courses 500+ are considered capstone courses)
• Make major and minor requirements more flexible by reducing requirements for specific courses
• Ensure articulation between courses at all levels and with courses taken in our Summer Language Institutes
• Better integrate development of critical thinking into courses at all levels
• Continue working with the Office of Study Abroad to integrate study abroad more effectively into curriculum
• Redesign requirements for Departmental Honors (currently, students must take a 700-level course before beginning an Honors project)
• Monitor each student’s progress toward his or her goal on a regular basis and using a variety of means (assessment of written work, exit interview and survey, etc.)
• Develop and maintain a strong co-curricular program to enhance the curriculum
• Update information in Undergraduate Catalog to reflect new curriculum
After consulting with Karen Ledom, SAS, and Associate Dean Ann Cudd, College of Arts and Sciences, we decided that it is best to wait until next year before requesting a degree name change. This process would need to start with Associate Dean Cudd and then move to the Provost’s Office and the Board of Regents, which would slow down the approval process of our proposed curriculum. We feel that it is crucial need to implement the new curriculum in Fall 2013, so we propose keeping the current degree name for one more year. We would start the approval process after the new curriculum has been approved.

o. New Major – Human Sexuality

Proposal:

**Courses required for each student in the major:**

**Survey Course** – 3 hours

- either HSES 489 (Health and Human Sexuality)
- or PSYC 502 (Human Sexuality)
- or SW 303 (Human Sexuality in Everyday Life)

(one of these three courses is already required for the Human Sexuality Minor offered by the WGSS Department; written approval from the chairs or dean of the respective units will be requested and forwarded to CLAS Academic Services / kjh@ku.edu).

**Core** – 12 hours

4 courses, including at least one course each from the social sciences and humanities core lists.

**Core Social Science Courses** – 3

- AAAS 372/ANTH 372 — Religion, Power & Sexuality in Arab Lands
- ANTH 359 — Anthropology of Sex
- ANTH 583/WGSS 583 — Love, Sex, and Globalization
- POLS 640 — Reproductive Policy
- PSYC 410 — Intimate Relationships
- PSYC 555 — Evolutionary Psychology
- PSYC 521/WGSS 521 — Women and Violence
- PSYC 689/WGSS 689 — Conceptual Issues in Human Sexuality

**Core Humanities Courses** – 3

- AAAS 598/HIST 598 — Sexuality and Gender in African History
- CLSX 315 — Women in Ancient Art and Society
- CLSX 374/HWC 374 — Gender and Sexuality, Ancient and Modern
- EALC 418/618 — Sexual Politics Dynastic China
- EALC 575 — Love, Sexuality and Gender in Japanese Lit
- ENGL 572 — Women and Literature (if relevant)
- HIST 608 — History of Sexuality
- PHIL 504 — Philosophy of Sex and Love
- REL 374 — Religious Perspectives on Selfhood & Sexuality
- WGSS 327 — Perspectives: Lesbian, Gay, Bisexual, Transgender
- WGSS 333 — The Politics of Physical Appearance
- WGSS 345 — Pop Culture in Africa: Thrills, Romance & Sexualities
- WGSS 396 — Topic: Gay & Lesbian Cultures
- WGSS 396 — Topic: Sexuality & Sexual Constructions
- WGSS 396 — Topic: History, Theory, & Representation of Lesbianism
- WGSS 396 — Topic: Gender & Sexuality in Cyberspace
- WGSS 396 — Topic: Sex & Gender: Fairbanks to Marilyn
- WGSS 563 — Gender, Sexuality and the Law
Methods

**One methods course**—3 hours

- ABSC 308—Research Methods & Application
- AMS 360—Theory and Method
- BIOL 598—Research Methods
- COMS 356—Intro Behavioral Res Methods in Communication
- ENGL 308—Intro to Literacy Criticism & Theory
- HIST 301—The Historian's Craft
- HSES 465—Program Assessment & Evaluation
- HWC 325—Theory & Method Interdisciplinary Stds
- POLS 306—Political Sci Methd of Inquiry
- PSYC 200—Research Methods in Psychology (was PSYC 300)
- SOC 310—Introduction to Social Research
- Honors thesis: students do research under faculty supervision

Secondary courses

**Two Secondary courses (or survey or core courses)**—6 hours

- AAAS 554—Contemporary Health Issues in Africa
- ABSC 268—Introduction to Marriage and Family Relations
- ABSC/PSYC 626—Psychology of Adolescence
- AMS 110/112 / SOC 110/112—American Identities
- AMS 344/WGSS 396—African Amer Women: Colonial to Present
- ANTH 389/WGSS 389—Anth of Gender: Female, Male & Beyond
- COMS 344—Relational Communication
- COMS 440—Gender and Communication
- COMS 455/REL 475—Loving Relationships
- COMS 552—Rhetoric of Women's Rights
- HIST 324/WGSS 324—History of Women and the Body
- HWC 570/WGSS 570—Men and Masculinities
- HWC 575/WGSS 575—The Body, Self and Society
- PHIL 674—Philosophy of Law
- POLS 600/WGSS 600—Contemporary Feminist Political Theory
- POLS 630/WGSS 630—Politics of Identity
- PSYC 465—Stereotypes & Prejudice Across Cultures
- PSYC/WGSS 468—Psychology of Women
- PSYC 642—Psychology of Families*
- SOC 220—Sociology of Families
- SOC 617—Women and Health Care
- SOC 628—Families and Social Inequalities
- WGSS 333—Politics of Physical Appearance
- WGSS 396—Topic: Public Health & the Human Body

Electives

**Two elective courses (or additional survey, core, or secondary courses)**—6 hours

- Special Topics Courses / Studies in ____ / Seminar in ____
- Independent Study/Directed Study (e.g., WGSS 498)
- Internship Courses (e.g., PSYC 483: Undergraduate Internship)
- Honors Thesis/Senior Essay/Honors Essay
- Service Learning Courses (e.g., WGSS 650: Service Learning)

**TOTAL**—30 chr

**JUSTIFICATION**

The Department of Women, Gender, and Sexuality Studies (WGSS) at the University of Kansas proposes to establish a new BA/BGS degree program in Human Sexuality beginning in Spring 2013.
We need no new funding, faculty, staff or equipment to host this new major.

We think a new major in Human Sexuality will appeal to undergraduates and will boost our already growing numbers of students interested in our programs. And we are certain there are employment opportunities for graduates in this area.

In February 2012, we surveyed students in two KU courses: an introductory course (WGSS 201, Women’s Studies: An Interdisciplinary Introduction, and PSYC/WGSS 689, Conceptual Issues in Human Sexuality). The survey is included in Appendix C. All surveys were administered anonymously. Students were asked the following question:

Would you major (or double major) in Human Sexuality, if this major were offered at KU?

(If you are a junior or senior, answer based on whether you would have majored/double majored in Human Sexuality, had this major been offered when you first entered KU.)

Students could answer Yes, Maybe, or No. The quantitative data suggested a strong interest in a human sexuality major. In addition, in their comments, many students expressed a strong interest in pursuing such a major.

Students trained in this program would be eminently suitable for graduate study in programs like Social Welfare, Psychology, Sociology, and Anthropology and could be employed in a variety of academic settings, human services organizations, and governmental positions, as well as in a growing non-governmental, non-profit sector that serves global and international human rights needs.

More specifically, students graduating with a BA/BGS in Human Sexuality at KU could enter a MA or PhD program in a social science department like Anthropology, Sociology, Psychology, and Social Welfare or could be admitted to law school (roughly 10-20% of our present graduates with a BA/BGS in women's studies or with a Human Sexuality minor apply to law school). MA and/or PhD degrees could lead to employment at a wide range of educational institutions, including counselors and teachers (with the appropriate certification and education degrees) in high schools, community colleges, and state and private colleges and universities. JD degrees could lead to practice with a focus on civil rights or to positions in advocacy organizations.

Apart from higher education opportunities, there are job opportunities in non-profit service organizations and in the private sector. For instance, paid internships at the Willow Domestic Violence Center, Lawrence KS, were advertised early in 2012 for a starting date in either Spring 2013. Risk management and diversity positions in private companies have also begun to proliferate; the corporate world has begun to realize that they, like public institutions, need to foster more inclusive and tolerant climates in the work force, and to that end they have begun hiring facilitators, counselors, compliance officers, and risk managers.

No other universities in Kansas or neighboring states offer a major in human sexuality, although KU does offer a minor in human sexuality.

Several colleges and universities in other parts of the U.S. and Canada offer undergraduate majors related to sexuality:

• Some offer majors in Sexuality Studies or LGBT Studies (i.e., Hobart and William Smith Colleges, Ohio State University, San Diego State University, University of Toronto, York University).

• Some offer majors in Women, Gender, and Sexuality Studies, with a concentration or specialization in LGBT Studies or Sexuality Studies (University of Cincinnati, Yale University).

• Some offer majors in Gender and Sexuality Studies (Brown University, Miami University, Rice University, University of Chicago, Wesleyan University).


p. Change to Existing Major in Visual Art BFA

PROPOSAL

We are requesting a change in the distribution of 10 credit hours in the Visual Art BFA (general) major. The current requirements allow for the following:
ART 540 – Professional Activities Seminar (1 hr)
ART 695 – Directed Study I (4 hrs)
ART 696 – Directed Study II (5 hrs)

General Option
The general option requires 49 major hours, including a minimum of 15 junior/senior hours in the major, a minimum of 15 major hours in residence, and a minimum 2.0 KU junior/senior grade-point average in the major.

Senior Studio Requirements (10 hours)
- Prerequisite: 30 hours of studio art courses.
- ART 540 Professional Activities Seminar (3)
- ART 695 Directed Study I (4) 3
- ART 696 Directed Study II (5) 4

JUSTIFICATION
The amount of coursework done in these 3 classes is not currently being accurately reflected in the assigned credit hours. Students in ART 540 meet for 160 contact hours per week, while students in ART 695 and 696 are not assigned coursework worthy of the extra credit given them. We would like to adjust these credit hours to give ART 540 the “weight” it deserves.

PROPOSAL
Intention to change Admission Requirements to the Major.
Current requirements are:
A minimum GPA of 2.5 between
FMS 100, Introduction to Film and Media Studies and
FMS 380. American Popular Culture of: ______.
Proposed requirements are:
GPA of 2.5 between
FMS 100, Introduction to Film and Media Studies
FMS 200, Introduction to Film and Media Aesthetics.
FMS 380, American Popular Culture of: ______

JUSTIFICATION
Faculty in the Department of Film and Media Studies, and in discussion with Amy Lampe, College Advisor, have decided that a 2.5 GPA between the three courses is a better predictor of success in both the B.A. and B.G.S. degrees because of the additional writing assignments and the small production assignment component of FMS 200.

PROPOSAL
Change to BS in Biochemistry
General Science Requirements 45 hours
CHEM 130 General Chemistry I (5), CHEM 170 Chemistry for the Chemical Sciences I (or CHEM 190 Honors) (5)
CHEM 135 General Chemistry II (5) CHEM 175 Chemistry for the Chemical Sciences II
(or CHEM 195 Honors) (5)
CHEM 620 Analytical Chemistry (3)
CHEM 330 Organic Chemistry I (or CHEM 380 Honors) (3)
CHEM 331 Organic Chemistry I Laboratory (2)
CHEM 335 Organic Chemistry II (or CHEM 385 Honors) (3)
CHEM 336 Organic Chemistry II Laboratory (2)
CHEM 510 Biological Physical Chemistry (3) or CHEM 646 530 Physical Chemistry I (3)
MATH 121 Calculus I (5)
MATH 122 Calculus II (5)

JUSTIFICATION

We are proposing to add the new courses CHEM 170 and 175 as alternatives to CHEM 184/185 and
CHEM 188/189 for biochemistry majors, as according to the course descriptions, the chemistry department
has intended these courses “for students pursuing or considering a major in one of the chemical sciences
(such as chemistry, biochemistry, chemical engineering or petroleum engineering).” CHEM 170 and 175
cover the same basic material as CHEM 184/185 and 188/189. The change in CHEM 184/185 and 188/189
numbers was approved recently by CUSA and CAC.

s. Change to Existing Major – BA and BS Biochemistry

PROPOSAL

Change to BA in Biochemistry
General Science Requirements 35-39 hours
CHEM 130 General Chemistry I (5), CHEM 170 Chemistry for the Chemical Sciences I
(or CHEM 190 Honors) (5)
CHEM 135 General Chemistry II (5) CHEM 175 Chemistry for the Chemical Sciences II
(or CHEM 195 Honors) (5)
CHEM 624 330 Organic Chemistry I (or CHEM 380 Honors) (3)
CHEM 625 331 Organic Chemistry I Laboratory (2)
CHEM 626 335 Organic Chemistry II (or CHEM 385 Honors) (3)
CHEM 640 510 Biological Physical Chemistry (3)

JUSTIFICATION

We are proposing to add the new courses CHEM 170 and 175 as alternatives to CHEM 184/185 and
CHEM 188/189 for biochemistry majors, as according to the course descriptions, the chemistry department
has intended these courses “for students pursuing or considering a major in one of the chemical sciences
(such as chemistry, biochemistry, chemical engineering or petroleum engineering).” CHEM 170 and 175
cover the same basic material as CHEM 184/185 and 188/189. The change in CHEM 184/185 and 188/189
numbers was approved recently by CUSA and CAC.

s. Change to Major Admission Requirements in Biology due to CHEM course renumbering and creation of CHEM 175

CURRENT:

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

- Principles of Molecular and Cellular Biology. Satisfied by BIOL 150 or 151.
- Principles of Organismal Biology. Satisfied by BIOL 152 or BIOL 153.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Principles of Genetic. Satisfied by BIOL 350 or BIOL 360.
Admission course requirements for Microbiology:

- BIOL 150 Principles of Molecular and Cellular Biology
- CHEM 188 Foundations of Chemistry II
- BIOL 350 Principles of Genetics

**Biology Admission GPA**
Must have a grade-point average of at least 2.2 based on grades in BIOL 150, BIOL 152, CHEM 188, and BIOL 350 (or equivalents).

**Microbiology Admission GPA**
Must have a grade-point average of at least 2.2 based on grades in BIOL 150, CHEM 188, and BIOL 350 (or equivalents).

**PROPOSED CHANGES:**

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

- 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:

- 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.

**t. THE FOLLOWING ARE ALL RELATED TO THE PHSX 211/216 AND PHSZ 212/236 CHANGSE:**

**CHANGES TO PHYSICS BA, BS AND MINOR:**

Requirements for the B.A. Major in Physics

Bachelor of Arts in Physics Major Course Requirements

**Physics 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 121 or MATH 141 (or equivalent).
- **Calculus II.** Satisfied by MATH 122 or MATH 142 (or equivalent).
- Vector Calculus. Satisfied by MATH 223
- Elementary Linear Algebra. Satisfied by MATH 290.
- Differential Equations. Satisfied by MATH 220 or MATH 320 (recommended).
- Foundations of Chemistry I. Recommended: CHEM 184 or CHEM 185.

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

- Seminar in Physics, Astronomy, & Engineering Physics. Satisfied by PHSX 150.
- General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213.
- General Physics II. Satisfied by PHSX 212 AND PHSX 236 or PHSX 214.
- General Physics III. Satisfied by PHSX 313.
- Intermediate Physics Lab. Satisfied by PHSX 316.
- Introductory Quantum Mechanics. Satisfied by PHSX 511.
- Mechanics I. Satisfied by PHSX 521.
- Electricity and Magnetism. Satisfied by PHXS 531.
- Physics Required Elective. Satisfied by any lecture or laboratory course numbered 500 or higher.

Concentration in Computational Physics

Physics 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.

- Programming I. Satisfied by EECS 168.
- Programming II. Satisfied by EECS 268.
- Elementary Linear Algebra. Satisfied by MATH 290.
- Elementary or Applied Differential Equations. Satisfied by MATH 220 or MATH 320.
- Foundations of Chemistry I. Satisfied by CHEM 184.
- Principles of Biology. Satisfied by BIOL 100.
- Introduction to Symbolic Logic. Satisfied by PHIL 310.
- Economics. Satisfied by ECON 142 or ECON 144.

*CHEM 184, PHIL 310, ECON 142 or ECON 144, and BIOL 100 should be taken to fulfill B.A. general education requirements.

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

- Seminar in Physics, Astronomy, and Engineering Physics. Satisfied by PHSX 150.
- General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213.
- General Physics II. Satisfied by PHSX 212 AND PHSX 236 or PHSX 214.
- General Physics III and Intermediate Physics Laboratory. Satisfied by PHSX 313 and PHSX 316.
- Mechanics I. Satisfied by PHSX 521.
- Electricity and Magnetism. Satisfied by PHXS 531.
- Special Problems. Satisfied by PHSX 500.

Requirements for the B.S. Degree in Physics

Physics 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.

- Computing and Programming. Satisfied by: EECS 138 or EECS 168.
Calculus I. Satisfied by: MATH 121 or MATH 141 (or equivalent).
Calculus II. Satisfied by: MATH 122 or MATH 142 (or equivalent).
General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213.
General Physics II. Satisfied by PHSX 212 AND PHSX 236 or PHSX 214.
Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
Vector Calculus. Satisfied by MATH 223 or MATH 243.
Elementary Linear Algebra. Satisfied by MATH 290 or MATH 291.
Math Elective. Satisfied by 1 of the following: PHSX 518, PHSX 718, MATH 526, MATH 530, MATH 558, MATH 581, MATH 590, MATH 628, MATH 646, MATH 647, MATH 648, MATH 660, MATH 661, or any 700-level MATH lecture course except MATH 701 and MATH 715.

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

- General Physics III. Satisfied by PHSX 313.
- Intermediate Physics Lab. Satisfied by PHSX 316.
- Introductory Quantum Mechanics. Satisfied by PHSX 511.
- Physical Measurements or Electronic Circuit Measurement and Design. Satisfied by PHSX 516 or 536.
- Mechanics I. Satisfied by PHSX 521.
- Electricity and Magnetism. Satisfied by PHSX 531.
- Thermal Physics. Satisfied by PHSX 671.
- Undergraduate Research or Honors Research. Satisfied by PHSX 503 or PHSX 501.
- Physics Elective. Satisfied by any PHSX lecture or laboratory course numbered 500 or higher and not part of the other specific requirements for the major.

Physics Required Electives. Majors must complete one of the following options:

Requirements for the Minor in Physics

Physics Minor Course Requirements

Student selecting this minor must complete courses as specified in each of the following areas:

- General Physics I. Satisfied by PHSX 211 AND PHSX 216 (or PHSX 213).
- General Physics II. Satisfied by PHSX 212 AND PHSX 236 (or PHSX 214).
- General Physics III and Intermediate Physics Laboratory. Satisfied by PHSX 313 and PHSX 316.
- Mechanics I. Satisfied by PHSX 521.
- Electricity and Magnetism. Satisfied by PHSX 531.
- Physics Required Elective. Satisfied by any 3 credit hour PHSX course numbered 500 or above.

CHANGES TO ASTRONOMY BA, BS AND MINOR:

Requirements for the B.A. Major in Astronomy

In addition to general education requirements for B.A. degrees in the College, 39.5 hours of astronomy, physics, mathematics, and chemistry are required.

Astronomy 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 121 or MATH 141 (or equivalent).
- Calculus II. Satisfied by MATH 122 or MATH 142 (or equivalent)
- Seminar in Physics, Astronomy, & Engineering Physics. Satisfied by PHSX 150
- General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213
- General Physics II. Satisfied by PHSX 212 AND PHSX 236 or PHSX 214
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.

**Astronomy Core Knowledge and Skills.** Majors must complete a course in each of the 5 following areas:

- Introductory Astronomy Laboratory or Observational Astrophysics. Satisfied by ASTR 196 or ASTR 596.
- Physical Astronomy, Honors. Satisfied by ASTR 391.
- Undergraduate Problems. Satisfied by ASTR 390.
- Stellar Astronomy. Satisfied by ASTR 591.
- Galactic & Extragalactic Astronomy. Satisfied by ASTR 592.

**Astronomy Required Elective.** Satisfied by PHSX 693, ASTR 691, or GEOL 572.

**Requirements for the B.S. Degree in Astronomy**

**Bachelor of Science in Astronomy Course Requirements**

**Astronomy 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.

- Computing and Programming. Satisfied by EECS 138 or EECS 168.
- Calculus I. Satisfied by MATH 121 or MATH 141 (or equivalent).
- Calculus II. Satisfied by MATH 122 or MATH 142 (or equivalent).
- Seminar in Physics, Astronomy, & Engineering Physics. Satisfied by PHSX 150.
- General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213.
- General Physics II. Satisfied by PHSX 212 AND PHSX 236 or PHSX 214.
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.

**Advanced Mathematics Core Knowledge and Skills.** Majors must complete courses as indicated in the following areas:

- Vector Calculus. Satisfied by MATH 223.
- Elementary Linear Algebra. Satisfied by MATH 290.
- MATH Elective. Satisfied by PHSX 518, PHSX 718, MATH 526, MATH 530, MATH 558, MATH 581, MATH 590, MATH 628, MATH 646, MATH 647, MATH 648, MATH 660, MATH 661, or any 700-level MATH lecture course except MATH 701 and MATH 715.

**Astronomy Core Knowledge and Skills.** Majors must complete courses as indicated in the following areas:

- Physical Astronomy, Honors. Satisfied by ASTR 391.
- Stellar Astronomy. Satisfied by ASTR 591.
- Galactic & Extragalactic Astronomy. Satisfied by ASTR 592.
- Observational Astrophysics. Satisfied by ASTR 596.
- Gravitation and Cosmology. Satisfied by PHSX 693.
- Astrophysics I and II. Satisfied by ASTR 691 and ASTR 692.
- Undergraduate Research. Satisfied by ASTR 503.

**Physics Core Knowledge and Skills.** Majors must complete courses as indicated in the following areas:

- General Physics III. Satisfied by PHSX 313.
- Intermediate Physics Lab. Satisfied by PHSX 316.
- Introductory Quantum Mechanics. Satisfied by PHSX 511.
- **Physical Measurements or Electronic Circuit Measurement and Design.** Satisfied by **PHSX 516** or **536**.
- **Mechanics I.** Satisfied by **PHSX 521**.
- **Electricity and Magnetism.** Satisfied by **PHSX 531**.
- **Thermal Physics.** Satisfied by **PHSX 671**.
- **Physics Elective.** Satisfied by any PHSX lecture or laboratory course numbered 500 or higher including **ASTR 795/PHSX 795** Space Plasma Physics and **GEOL 572** Geophysics.

Requirements for the Minor in Astronomy

Astronomy Minor Course Requirements

Student selecting this minor must complete courses as specified in each of the following areas:

- **General Physics I.** Satisfied by **PHSX 211** and **PHSX 216** (or **PHSX 213**).
- **General Physics II.** Satisfied by **PHSX 212** AND **PHSX 236** (or **PHSX 214**).
- **General Physics III and Intermediate Physics Laboratory.** Satisfied by **PHSX 313** and **PHSX 316**.
- **Physical Astronomy, Honors.** Satisfied by **ASTR 391** (students ineligible to take **ASTR 391** should take **ASTR 390**).
- **Astronomy Required Electives.** Satisfied by at least 5 hours in any combination of **ASTR** courses numbered above **300**.

**CHANGES TO ATMOSPHERIC SCIENCE BS AND MINOR:**

Requirements for the B.S. Degree in Atmospheric Science

Atmospheric Science 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.

- Computing and Programming. Satisfied by **EECS 138** (Fortran preferred; C++ and Matlab accepted).
- Scientific Principles of Environmental Studies. Satisfied by **EVRN 148**.
- Calculus I. Satisfied by **MATH 121** or **MATH 141** (or equivalent).
- Calculus II. Satisfied by **MATH 122** or **MATH 142** (or equivalent).
- General Physics I. Satisfied by **PHSX 211** AND **PHSX 216** or **PHSX 213**.
- General Physics II. Satisfied by **PHSX 212** AND **PHSX 236** or **PHSX 214**.
- Foundations of Chemistry I. Satisfied by **CHEM 184** or **CHEM 185**.
- Vector Calculus. Satisfied by **MATH 223** or **MATH 243**.
- Elementary Linear Algebra. Satisfied by **MATH 290** or **MATH 291**.
- Applied Differential Equation. Satisfied by **MATH 320** or **MATH 220**.
- Statistics. Satisfied by **MATH 526** or **DSCI 301**.
- Numerical Methods. Satisfied by **MATH 581**.

Atmospheric Science Core Knowledge and Skills. Majors must complete all of the following:

- Introductory Meteorology (5). Satisfied by **ATMO 105**.
- Climate and Climate Change (3). Satisfied by **ATMO 321/GEOG 321**.
- Weather Forecasting (3). Satisfied by **ATMO 505**.
- Micrometeorology (3). Satisfied by **ATMO 521/GEOG 521**.
- Synoptic Meteorology (3). Satisfied by **ATMO 630**.
- Dynamic Meteorology (3). Satisfied by **ATMO 640**.
- Remote Sensing (3). Satisfied by **ATMO 642**.
- Advanced Dynamic Meteorology (3). Satisfied by **ATMO 660**.
- Physical Meteorology (3). Satisfied by ATMO 680.
- Seminar for Seniors (1). Satisfied by ATMO 697.

Requirements for the Minor in Atmospheric Science

Student selecting this minor must complete courses as specified in each of the following areas:

Atmospheric Science Prerequisite or Co-requisite Knowledge

- Calculus I. Satisfied by MATH 121 or MATH 141 (or equivalent).
- Calculus II. Satisfied by MATH 122 or MATH 142 (or equivalent).
- General Physics I. Satisfied by PHSX 211 AND PHSX 216 or PHSX 213.

Atmospheric Science Minor Course Requirements

- Introductory Meteorology (5). Satisfied by ATMO 105.
- Climate and Climate Change (3). Satisfied by ATMO 321/GEOG 321.
- Weather Forecasting (3). Satisfied by ATMO 505.

Atmospheric Science Required Electives

Student selecting this minor must complete 3 courses (9 hours) of the following:

- ATMO 521 Microclimatology
- ATMO 525 Air Pollution Meteorology
- ATMO 630 Synoptic Meteorology
- ATMO 640 Dynamic Meteorology
- ATMO 642 Remote Sensing
- ATMO 680 Physical Meteorology

CHANGES TO BIOCHEMISTRY BA AND BS; BIOLOGY BA, BS; HUMAN BIOLOGY BA; MICROBIOLOGY BA, BS; MOLECULAR BIOSCIENCES BS:

Requirements for the B.A. Major in Biochemistry

Major Course Requirements

General Science Requirements. Satisfied by completing 35-41 hours.

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 622, CHEM 624, or CHEM 628.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Organic Chemistry II. Satisfied by CHEM 626.
- Biological Physical Chemistry. Satisfied by CHEM 640.
- Calculus I and II. Satisfied by MATH 115 & MATH 116 or MATH 121 & MATH 122 (or equivalent). Additional Math courses required. Students who plan to attend graduate school should enroll in MATH 121 and 122.
- Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236 or PHSX 114 and PHSX 115.

Biochemistry Requirements
- 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.
- Introduction to 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.

**Biology 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 adviser. Some suggested courses are: BIOL 400 (or BIOL 401, Honors), BIOL 408, BIOL 416, 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.

**Requirements for the B.S. Degree in Biochemistry**

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

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Analytical Chemistry. Satisfied by CHEM 516.
- Organic Chemistry I. Satisfied by CHEM 624 or CHEM 628.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
- Organic Chemistry II Laboratory. Satisfied by CHEM 627.
- Physical Chemistry. Satisfied by CHEM 640 or CHEM 646.
- Calculus I & II. Satisfied by MATH 121 and MATH 122 (or equivalent).
- Physics. Satisfied by PHSX 114 and PHSX 115 or PHSX 211 and PHSX 216, and PHSX 212 and PHSX 213.

**Biochemistry Course Requirements.** Satisfied by completing 25 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.
- Introduction to 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.

**Biochemistry Required Electives.** BIOL courses numbered 400 or higher must be selected in consultation with a biochemistry adviser. 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.

**Requirements for the B.A. Major in Biology**

**Major Course Requirements**
- **General Science Requirements** (28-30 hours).
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 622 or CHEM 624.
- Organic Chemistry I Laboratory. Satisfied by 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, PHSX 211 AND PHSX 216, or PHSX 213.
- College Physics or General Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236, or PHSX 214.

**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 550.
- Fundamentals / Development / Function. Satisfied by 2 of the following: BIOL 400, BIOL 408, BIOL 416, 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 non-laboratory biology courses numbered 400 or higher.
- **Biology Laboratory.** Satisfied by completing at least 4 hours of biology lab courses. No more than 2 hours of BIOL 424 being applied towards the laboratory requirement.

**Requirements for the B.S. Degree in Biology**

**Biodiversity, Ecology, and Evolutionary Biology**

**General Science Requirements.** Majors must complete the following 26-29 hours of general science requirements that serve as foundational courses for this major.

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 622, CHEM 624 or CHEM 628.
- Calculus I. Satisfied by taking MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
- Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236, or 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, 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.
- 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 2 hours of seminar or topics course (BIOL 419, BIOL 420, BIOL 499, or BIOL 701).
- Laboratory. Satisfied by completing 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.

Cellular Biology

General Science Requirements. Majors must complete the following 31-34 hours of general science requirements that serve as foundational courses for this major.

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 624 or CHEM 628.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
- Calculus I. Satisfied by taking MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by taking PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
- Physics II. Satisfied by taking PHSX 115, PHSX 212 AND PHSX 236, or 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.

- 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, 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.

Genetics

General Science Requirements. Majors must complete the following 28-31 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 626/627.

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 622, CHEM 624 or CHEM 628.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
- Physics I. Satisfied by PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
- Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236, or 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
- Introduction to Biostatistics. Satisfied by BIOL 570.
- Introductory Biochemistry. Satisfied by BIOL 600.
- Choose 1 Course. Satisfied by BIOL 400, BIOL 408, or BIOL 417.

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

- 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 611, BIOL 688, BIOL 743, BIOL 747, 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 1 or 2 laboratory courses (minimum of 3 hours) selected from the following: BIOL 424 (2 hours max.), BIOL 426, BIOL 430, BIOL 519, BIOL 601, BIOL 637, BIOL 756, and BIOL 759.
• Electives. Satisfied by choosing 5 additional hours in BIOL courses numbered 400 or higher.

**Neurobiology**

**General Science Requirements.** Majors must complete the following 31-34 hours of general science requirements that serve as foundational courses for this major.

• Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
• Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
• Organic Chemistry I. Satisfied by CHEM 624 or CHEM 628.
• Organic Chemistry I Laboratory. Satisfied by CHEM 625.
• Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
• Calculus I. Satisfied by MATH 115 and MATH 116, or MATH 121 or MATH 141.
• Physics I. Satisfied by PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
• Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236 or PHSX 214.

**General Biology Requirements.** Satisfied by completing 21-23 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.
• 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 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.

**Organismal Biology**

**General Science Requirements.** Majors must complete the following 28-31 hours of general science requirements that serve as foundational courses for this major.

• Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
• Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
• Organic Chemistry I. Satisfied by CHEM 622, CHEM 624 or CHEM 628.
• Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Calculus I. Satisfied by \texttt{MATH 115} and \texttt{MATH 116}, or \texttt{MATH 121} or \texttt{MATH 141}.
- Physics I. Satisfied by \texttt{PHSX 114}, \texttt{PHSX 211} \texttt{AND PHSX 216}, or \texttt{PHSX 213}.
- Physics II. Satisfied by \texttt{PHSX 115}, \texttt{PHSX 212} \texttt{AND PHSX 236}, or \texttt{PHSX 214}.

\textbf{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 \texttt{BIOL 150} or \texttt{BIOL 151}.
- Principles of Organismal Biology. Satisfied by \texttt{BIOL 152} or \texttt{BIOL 153}.
- Principles of Genetics. Satisfied by \texttt{BIOL 350}.
- Evolutionary Biology. Satisfied by \texttt{BIOL 412}.
- Introductory Biochemistry. Satisfied by \texttt{BIOL 600}.

\textbf{Organismal Biology Course Requirements.} Satisfied by completing 21 hours of course work below.

- Physiology of Organisms. Satisfied by \texttt{BIOL 408}.
- Physiology of Organisms Laboratory. Satisfied by \texttt{BIOL 409}.
- History/Diversity of Organisms. Satisfied by \texttt{BIOL 413}.
- Senior Seminar in Organismal Biology. Satisfied by \texttt{BIOL 599}. Must be taken in senior year.
- Choose 1 course. Satisfied by choosing 1 course from the following: \texttt{BIOL 416}, \texttt{BIOL 414}, or \texttt{BIOL 550}.

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

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

\textbf{Function.} Satisfied by choosing 1 course from following: \texttt{BIOL 435}, \texttt{BIOL 503}, \texttt{BIOL 506}, \texttt{BIOL 526}, \texttt{BIOL 716}, \texttt{BIOL 606}, \texttt{BIOL 644}, \texttt{BIOL 646}, \texttt{BIOL 652}, \texttt{BIOL 667}, \texttt{BIOL 673}.

\textbf{Diversity.} Satisfied by choosing 1 course from following: \texttt{ANTH 440}, \texttt{BIOL 400}, \texttt{BIOL 401}, \texttt{BIOL 494}, \texttt{BIOL 500}, \texttt{BIOL 505}, \texttt{BIOL 509}, \texttt{BIOL 512}, \texttt{BIOL 521}, \texttt{BIOL 711}, \texttt{BIOL 529}, \texttt{BIOL 709}, \texttt{BIOL 533}, \texttt{BIOL 540}, \texttt{BIOL 583}, \texttt{BIOL 783}, \texttt{BIOL 592}, \texttt{BIOL 792}, \texttt{BIOL 593}, \texttt{BIOL 603}, \texttt{BIOL 610}, \texttt{BIOL 613}, \texttt{BIOL 622}, \texttt{BIOL 640}.

\textbf{Genetics 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 (\texttt{BIOL 419}, \texttt{420}, \texttt{499}, \texttt{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 \texttt{BIOL 423} Non-Lab Independent Study and/or \texttt{BIOL 424} Independent Study (combined) can be applied towards the elective requirement with no more than 2 hours of \texttt{BIOL 424} being applied towards the laboratory requirement.

- Seminar. 1 hour of seminar: \texttt{BIOL 419}, \texttt{BIOL 420}, \texttt{BIOL 499}, or \texttt{BIOL 701}.
- Laboratory. 2 hours of laboratory courses. No more than 2 hours of \texttt{BIOL 423}/424 allowed toward Lab requirement.

\textbf{Organismal Biology Electives.} 7 hours required. No more than 3 hours of \texttt{BIOL 423}/424 allowed toward elective requirement.

\textbf{Teaching Biology}

\textbf{General Science Requirements.} Majors must complete the following 28-31 hours of general science requirements that serve as foundational courses for this major.

- Foundations of Chemistry I. Satisfied by \texttt{CHEM 184} or \texttt{CHEM 185}.
- Foundations of Chemistry II. Satisfied by \texttt{CHEM 188} or \texttt{CHEM 189}.
- Organic Chemistry I. Satisfied by \texttt{CHEM 622}, \texttt{CHEM 624} or \texttt{CHEM 628}.
- Organic Chemistry I Laboratory. Satisfied by \texttt{CHEM 625}.
- Calculus I. Satisfied by \texttt{MATH 115} and \texttt{MATH 116}, or \texttt{MATH 121} or \texttt{MATH 141}.
Physics I. Satisfied by PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236, or PHSX 214.

Teaching Biology Course Requirements. Satisfied by completing 30-31 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.
- Choose 1 Course. Satisfied by BIOL 400, 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 4 hours of biology laboratory courses. Some course limits apply, including no more than 2 hours of BIOL 423/424 allowed toward Lab requirement.
- Teaching Biology Elective. Satisfied by completing 3 hours of BIOL course work. 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.

Requirements for the B.A. Major in Human Biology

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

- Fundamentals of Physical Anthropology. Satisfied by ANTH 304.
- 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.
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- College or General Physics I. Satisfied by PHSX 114 or PHSX 211 AND PHSX 216
- Statistics. Satisfied by BIOL 570, PSYC 210 or MATH 365 (PSYC 300 was renumbered to PSYC 210 and the honors version, PSYC 211 as of fall 2010) BIOL 570 is recommended for the Anthropology Concentration.

Biology

Biology Concentration
Majors must complete the following 32 hours. These additional science courses are included in the Human Biology-Anthropology major hours and GPA calculations.

- Organic Chemistry I. Satisfied by CHEM 622 or CHEM 624.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- College or General Physics II. Satisfied by PHSX 115 or PHSX 212 AND 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 or above.

### Biology Concentration Categories

Satisfied by completing 2 of the following 4 categories listed below. (18-19 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, BIOL 595, BIOL 688, PSYC 333, PSYC 430, PSYC 531, SPLH 566.

- Development and Genetics. Satisfied by completing 6 hours from the following list of courses:
  - ABSC/PSYC 535, ANTH 762, BIOL 405, BIOL 416, BIOL 595, 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.

- Mammalian Physiology. Satisfied by BIOL 646.
- Anatomy & Physiology. Satisfied by completing 6 hours from the following list of 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.

- Evolutionary Biology. Satisfied by BIOL 412.
- Evolution, Ecology, and Adaptation. Satisfied by 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, BIOL 503, BIOL 506, BIOL 512, BIOL 518, BIOL 595, BIOL 616, BIOL 688.

- Fundamentals of Microbiology. Satisfied by BIOL 400 (or BIOL 401, Honors).
- Human Disease. Satisfied by completing 6 hours selected from the following: ANTH 450, BIOL 503, BIOL 506, BIOL 512, BIOL 518, BIOL 595, BIOL 616, BIOL 688.

### Requirements for the B.A. Major in Microbiology

**General Science Requirements**

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

- Principles of Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189
Organic Chemistry I. Satisfied by CHEM 622 or CHEM 624
Organic Chemistry I Laboratory. Satisfied by 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, PHSX 211 AND PHSX 216, or PHSX 213
College Physics or General Physics II. Satisfied by PHSX 115, PHSX 212 AND PHSX 236, or 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. 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 adviser.

Requirements for the B.S. Degree in Microbiology

Microbiology Course Requirements

General Science Requirements. Majors must complete 49-52 hours of the following general science requirements that serve as foundational courses for this major.

- Molecular & Cellular Biology. Satisfied by BIOL 150 or BIOL 151.
- Principles of Genetics. Satisfied by BIOL 350 or BIOL 360.
- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by CHEM 624 or CHEM 628.
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
- Organic Chemistry II Laboratory. Satisfied by CHEM 627.
- Physics. Satisfied by PHSX 114 & PHSX 115 or PHSX 211 AND PHSX 216; and PHSX 212 AND 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 or BIOL 403.
- 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 609/BIOL 599 Must be taken in senior year.

**Microbiology Required Electives.** Biology courses numbered 400 or higher to be selected in consultation with a microbiology adviser.

**Requirements for the B.S. Degree in Molecular Biosciences**

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

- Foundations of Chemistry I. Satisfied by CHEM 184 or CHEM 185
- Foundations of Chemistry II. Satisfied by CHEM 188 or CHEM 189
- Organic Chemistry I. Satisfied by CHEM 624 or CHEM 628
- Organic Chemistry I Laboratory. Satisfied by CHEM 625.
- Organic Chemistry II. Satisfied by CHEM 626 or CHEM 630.
- Organic Chemistry II Laboratory. Satisfied by CHEM 627
- Calculus. Satisfied by MATH 115 and MATH 116 or MATH 121.
- Statistics. Satisfied by BIOL 570, MATH 365, or PSYC 210.
- Physics. Satisfied by PHSX 114 and PHSX 115 or PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236.

**Molecular Biosciences Course Requirements.** Satisfied by completing 29 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
- Fundamentals of Microbiology Laboratory. Satisfied by BIOL 402.
- Laboratory in Genetics. Satisfied by BIOL 405
- Cell Structure & Function. Satisfied by BIOL 416
- Molecular Biology Laboratory. Satisfied by BIOL 430

**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.** (11 Required). 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, 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.

**Changes to Chemistry BA, BS and Minor:**

**Requirements for the B.A. Major**

**Chemistry Courses** 29 hours

- CHEM 184 (or CHEM 185) Foundations of Chemistry I (5)
- CHEM 188 (or CHEM 189) Foundations of Chemistry II (5)
- CHEM 295 Seminar I (0.5)
- CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 (or CHEM 628) Organic Chemistry I (3)
- CHEM 625 Organic Chemistry I Laboratory (2)
- CHEM 516 Analytical Chemistry (3)
- **CHEM 517** Analytical Chemistry Laboratory (2)
- **CHEM 640** Biological Physical Chemistry (3) and **CHEM 641** Biological Physical Chemistry Laboratory (2) or **CHEM 646** Physical Chemistry I (3) and **CHEM 647** Physical Chemistry I Laboratory (2)
- **CHEM 695** Seminar II (0.5)
- Additional chemistry course (3)

**Mathematics and Physics** 14-20 hours

- **MATH 115** Calculus I (3) or **MATH 121** Calculus I (5)
- **MATH 116** Calculus I (3) or **MATH 122** Calculus II (5)
- **PHSX 114** College Physics I (4) or **PHSX 211** AND **PHSX 216** General Physics I AND **GENERAL PHYSICS I LAB** (5)
- **PHSX 115** College Physics II (4) or **PHSX 212** AND **PHSX 236** General Physics II AND **GENERAL PHYSICS II LAB** (5)

Courses that fulfill the additional 3 hours for the major are **CHEM 626** (or **CHEM 630**), **CHEM 635** and **CHEM 636** Instrumental Methods of Analysis and Laboratory, **CHEM 648** Physical Chemistry II, or **CHEM 667** Systematic Inorganic Chemistry. Note that **CHEM 648** has **CHEM 646**, **MATH 223**, and **MATH 290** as prerequisites. Students in premedical programs should be aware that a year of organic chemistry lecture and laboratory (**CHEM 624** or **CHEM 628**, **CHEM 625**, **CHEM 626** or **CHEM 630**, and **CHEM 627**) is required for admission to virtually all medical schools. Students who need only 1 semester of organic chemistry should substitute **CHEM 622** (the 1-semester organic chemistry lecture course) for **CHEM 624**, when possible.

**Requirements for the B.S. Degree**

**Chemistry 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 and II. Satisfied by **MATH 121** and **MATH 122**.
- Differential Equations. Satisfied by **MATH 220** or 320.
- Elementary Linear Algebra. Satisfied by **MATH 290**.
- General or College Physics I. Satisfied by **PHSX 211** AND **PHSX 216**, or **PHSX 213**.
- General or College Physics II. Satisfied by **PHSX 212** AND **PHSX 236**, or **PHSX 214**.
- Biochemistry. Satisfied by **BIOL 600** or 636.

**Chemistry Core Knowledge and Skills**

Majors must complete courses as indicated in the following areas:

- Foundations of Chemistry I. Satisfied by **CHEM 184** or **CHEM 185**.
- Foundations of Chemistry II. Satisfied by **CHEM 188** or **CHEM 189**.
- Seminar I. Satisfied by **CHEM 295**.
- Analytical Chemistry (Lecture and Lab). Satisfied by **CHEM 516** and 517.
- Organic Chemistry I (Lecture and Lab). Satisfied by **CHEM 624** (CHEM 628) and **CHEM 625**.
- Organic Chemistry II (Lecture and Lab). Satisfied by **CHEM 626** and **CHEM 627**.
- Instrumental Methods of Analysis (Lecture and Lab). Satisfied by **CHEM 635** and **CHEM 636**.
- Physical Chemistry I and II (Lecture and Lab). Satisfied by **CHEM 646** and **CHEM 647**.
- Physical Chemistry II (Lecture and Lab). Satisfied by **CHEM 648** and **CHEM 649**.
- Systematic Inorganic Chemistry. Satisfied by **CHEM 667**.
- Seminar II. Satisfied by **CHEM 695**.

**Requirements for the Minor**
Chemistry Minor Course Requirements

Students selecting this minor must complete the following:

- Calculus I. Satisfied by: MATH 115, MATH 121, or MATH 141 (or equivalent).
- Calculus II. Satisfied by: MATH 116, MATH 122, or MATH 142 (or equivalent).
- General or College Physics I. Satisfied by: PHSX 114, PHSX 211 AND PHSX 216, or PHSX 213.
- General or College Physics II. Satisfied by: PHSX 115, PHSX 212 AND PHSX 236, or PHSX 214.
- Foundations of Chemistry I. Satisfied by: CHEM 184 or CHEM 185.
- Foundations of Chemistry II. Satisfied by: CHEM 188 or CHEM 189.
- Organic Chemistry I. Satisfied by: CHEM 622, CHEM 624 or CHEM 628.

Chemistry Required Elective Group I

Student selecting this minor must complete one of the following:

- Analytical Chemistry. Satisfied by: CHEM 516 and CHEM 517 (fall only).
- Biological Chemistry. Satisfied by: CHEM 640 or CHEM 641.
- Physical Chemistry. Satisfied by: CHEM 646 or CHEM 647.

Chemistry Required Elective Group II

Student selecting this minor must complete one of the following:

- Biological Chemistry. Satisfied by: CHEM 640.
- Physical Chemistry. Satisfied by: CHEM 646.
- Systematic Inorganic Chemistry. Satisfied by: CHEM 667 (spring only).

Requirements for the B.S. Degree

B.S. General Education Requirements

Physical Geography Option

Geology Prerequisite or Co-requisite Knowledge

- Calculus I. Satisfied by MATH 121 (recommended) or MATH 115
- Calculus II. Satisfied by MATH 122 (recommended) or MATH 116
- Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236 (recommended) or PHYS 114 and PHSX 115
- Biology. Satisfied by BIOL 150 and BIOL 152
- Chemistry. Satisfied by CHEM 184 and CHEM 188
- Information Technology. Satisfied by EECS 128

Geography Core Knowledge and Skills

- Principles of Physical Geography. Satisfied by GEOG 104
- Introductory Laboratory in Physical Geography. Satisfied by GEOG 105
- World Regional Geography or Principles of Human Geography. Satisfied by GEOG 100 or GEOG 102

Geography Foundation Courses

- Physical. Choose 3 of the following:
GEOG 304 Environmental Conservation  
GEOG 321 Climate and Climate Change  
GEOG 331 Regional Geomorphology of the United States  
GEOG 338 Introduction to River Systems  
GEOG 335 Introduction to Soil Geography or  
GEOG 535 Soil Geography  

Techniques  
Methods of Analyzing Geographical Data. Satisfied by GEOG 316  
Principles of Geographic Information Systems. Satisfied by GEOG 358  
Remote Sensing of Environment I. Satisfied by GEOG 526  

- Field Experience. Choose 1 of the following:  
EVRN 460 Field Ecology  
GEOG 433 Biogeography Field and Laboratory Techniques  
GEOG 714 Field Experience  

Senior Capstone in Geography. Satisfied by GEOG 500 or GEOG 714.  

Geography Required Electives  
- 6 additional hours from the physical geography course list (300 level or above).  
- 6 additional hours of geography (any group, 300 level or above).  
- 6 additional hours in an allied field (e.g., ATMO, BIOL, EVRN, or GEOL) approved by geography adviser.  

CHANGES TO GEOLOGY BA and BS:  
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 184, or CHEM 125.  
- Physics. Satisfied by PHSX 111, or PHSX 114 or PHSX 211 AND PHSX 216.  
- Biology. Satisfied by BIOL 100 and BIOL 102 (or higher level biology course).  
- Information Technology. Satisfied by EECS 128 or EECS 138.  

Geology Core Knowledge and Skills. Majors must complete the following core courses:  
- Introduction to Geology. Satisfied by GEOL 101.  
- Geology Fundamentals Laboratory. Satisfied by GEOL 103.  
- Mineralogy and Structure of the Earth. Satisfied by GEOL 311  
- Sedimentology and Surface Processes. Satisfied by GEOL 331.  
- Field Investigation. Satisfied by GEOL 360.  
- Paleontology. Satisfied by GEOL 521.  
- Introductory Field Geology. Satisfied by GEOL 560.  
- Structural Geology. Satisfied by GEOL 562.  

Geology Required Electives. Majors must complete a minimum of 15 hours in geology or related courses. Several possible tracks of upper-level course work are given below.  

General Geology Options: Concentrate on traditional geology with emphasis on the solid earth and the earth’s interior, earth surface processes, or environmental geology and natural resources.
• Solid Earth. Select GEOL 312, GEOL 512, GEOL 513, GEOL 532, GEOL 572, GEOL 573.
• Surface Earth. Select GEOL 171, GEOL 351, GEOL 532, GEOL 541, GEOL 722.
• Geology and Natural Resources. Select GEOL 351, GEOL 391, GEOL 541, GEOL 572, EVRN 332 (Prerequisite: EVRN 148).

Environmental Geology Options: Concentrate on environmental geology with emphasis on water and the environment or urban environmental geology.

• Urban Environmental Geology. Select GEOL 351, ATMO 525, CE 477, GEOG 304.
• Other Elective Courses. Select GEOL 532, ATMO 105, BIOL 414, BIOL 460, GEOG 558.

Requirements for the B.S. Degree

General Geology Option

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 121 (MATH 121 Prerequisite: MATH 104; or MATH 103; or 3 years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics or 640 or higher on the SAT; or a qualifying score on the mathematics placement test. Students may complete MATH 115 and 116 prior to completing MATH 122).
• Calculus II. Satisfied by MATH 122.
• Chemistry. Satisfied by CHEM 184 and CHEM 188.
• Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236.
• Biology. Satisfied by BIOL 150 and BIOL 152.
• Information Technology. Satisfied by EECS 128, EECS 138, or C&PE 212.

Geology Core Knowledge and Skills. Majors must complete the following core courses:

• Introduction to Geology. Satisfied by GEOL 101.
• Geology Fundamentals Laboratory. Satisfied by GEOL 103.
• Mineralogy and Structure of the Earth. Satisfied by GEOL 311.
• Mineral Structures and Equilibria Laboratory. Satisfied by GEOL 312.
• Sedimentology and Surface Processes. Satisfied by GEOL 331.
• Field Investigation. Satisfied by GEOL 360.
• Igneous and Metamorphic Petrology. Satisfied by GEOL 512.
• Petrology Laboratory. Satisfied by GEOL 513.
• Paleontology. Satisfied by GEOL 521.
• Paleontology Laboratory. Satisfied by GEOL 523.
• Stratigraphy. Satisfied by GEOL 532.
• Introductory Field Geology. Satisfied by GEOL 560.
• Field Geology. Satisfied by GEOL 561.
• Structural Geology. Satisfied by GEOL 562.
• Geophysics or Geodynamics and Plate Tectonics. Satisfied by GEOL 572 or GEOL 573.

Geology Required Electives. Majors must complete additional courses to total at least 9 hours numbered 500 or above.

Engineering Geology Option

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.
Mathematics. Satisfied by MATH 121, MATH 122, MATH 220, and MATH 290 (MATH 121 Prerequisite: MATH 104; or MATH 103; or 3 years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics or 640 or higher on the SAT; or a qualifying score on the mathematics placement test).

Chemistry. Satisfied by CHEM 184 and CHEM 188.

Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236.

Biology. Satisfied by BIOL 150 and BIOL 152.

Information Technology. Satisfied by EECS 128, EECS 138, or C&PE 121.

Statics. Satisfied by CE 201.

Dynamics. Satisfied by CE 300.


Hydrology. Satisfied by CE 455.


Geology Core Knowledge and Skills. Majors must complete the following core courses:

- Introduction to Geology. Satisfied by GEOL 101 and GEOL 103, or GEOL 105.
- Mineralogy and Structure of the Earth. Satisfied by GEOL 311.
- Mineral Structures and Equilibria Laboratory. Satisfied by GEOL 312.
- Sedimentology and Surface Processes. Satisfied by GEOL 331.
- Environmental Geology. Satisfied by GEOL 351.
- Field Investigation. Satisfied by GEOL 360.
- Igneous and Metamorphic Petrology. Satisfied by GEOL 512.
- Petrology Laboratory. Satisfied by GEOL 513.
- Geomorphology. Satisfied by GEOL 541.
- Introductory Field Geology. Satisfied by GEOL 560.
- Field Geology. Satisfied by GEOL 561.
- Structural Geology. Satisfied by GEOL 562.
- Geophysics or Geodynamics and Plate Tectonics. Satisfied by GEOL 572 or GEOL 573.

Geology or Civil Engineering Required Electives. Majors must complete 3 additional geology or civil engineering courses, at least 2 of which must be from the following: GEOL 521, GEOL 532, GEOL 535, GEOL 715, GEOL 751, CE 770 and CE 771.

Electives may include an upper-division course in statistics (MATH 365 or BIOL 570).

Environmental Geology Option

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 121 (MATH 121 Prerequisite: MATH 104; or MATH 103; or three years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics or 640 or higher on the SAT; or a qualifying score on the mathematics placement test. Students may complete MATH 115 and 116 prior to completing MATH 122).
- Calculus II. Satisfied by MATH 122.
- Chemistry. Satisfied by CHEM 184 and CHEM 188.
- Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236 (recommended) or PHYS 114 and PHSX 115.
- Biology. Satisfied by BIOL 150 and BIOL 152.
- Information Technology. Satisfied by EECS 128, EECS 138, or C&PE 212.

Geology Core Knowledge and Skills. Majors must complete the following core courses:

- Introduction to Geology. Satisfied by GEOL 101.
- Geology Fundamentals Laboratory. Satisfied by GEOL 103.
- Mineralogy and Structure of the Earth. Satisfied by GEOL 311.
- Sedimentology and Surface Processes. Satisfied by GEOL 331.
- Environmental Geology. Satisfied by GEOL 351.
- Field Investigation. Satisfied by GEOL 360.
- Paleontology. Satisfied by GEOL 521.
- Stratigraphy. Satisfied by GEOL 532.
- Geomorphology. Satisfied by GEOL 541.
- Introduction to Hydrogeology. Satisfied by GEOL 552.
- Introductory Field Geology. Satisfied by GEOL 560.
- Structural Geology. Satisfied by GEOL 562.
- Geophysics. Satisfied by GEOL 572.

Geology Required Electives. Majors must complete additional courses to total at least 9 hours numbered 500 or above. The following are recommended: GEOL 391, GEOL 535, GEOL 715, GEOL 751, CE 770 and CE 771, GEOG 535, GEOG 558, GEOL 753, BIOL 400 or C&PE 517.

Geophysics Option

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 121 (MATH 121 Prerequisite: MATH 104; or MATH 103; or three years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics or 640 or higher on the SAT; or a qualifying score on the mathematics placement test. Students may complete MATH 115 and 116 prior to completing MATH 122).
- Calculus II. Satisfied by MATH 122.
- Vector Calculus and Elementary Linear Algebra. Satisfied by MATH 223 and MATH 290.
- Chemistry. Satisfied by CHEM 184 and CHEM 188.
- Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236; PHSX 313; PHSX 521; PHSX 531.
- Information Technology. Satisfied by EECS 128 or demonstrate equivalent programming skills.

Geology Core Knowledge and Skills. Majors must complete the following core courses:

- Introduction to Geology. Satisfied by GEOL 101.
- Geology Fundamentals Laboratory. Satisfied by GEOL 103.
- Mineralogy and Structure of the Earth. Satisfied by GEOL 311.
- Sedimentology and Surface Processes. Satisfied by GEOL 331.
- Field Investigation. Satisfied by GEOL 360.
- Igneous and Metamorphic Petrology. Satisfied by GEOL 512.
- Introductory Field Geology. Satisfied by GEOL 560.
- Structural Geology. Satisfied by GEOL 562.
- Geophysics. Satisfied by GEOL 572 or GEOL 573.

Additional Geology Courses. Satisfied by completion of 2 of the following: GEOL 572, GEOL 573, GEOL 575, GEOL 577.

Technical Required Electives. Majors must complete additional courses to total at least 9 hours numbered 500 or above in geology, physics, mathematics, chemistry, engineering, or computer science. The following are recommended: GEOL 391, GEOL 535, GEOL 715, GEOL 751, CE 770 and CE 771, GEOG 535, GEOG 558, GEOL 753, BIOL 400 or C&PE 517.
Earth and Space Science Licensure Option

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 121 (Prerequisite: MATH 104; or MATH 103; or three years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics or 640 or higher on the SAT; or a qualifying score on the mathematics placement test. Students may complete MATH 115 and 116 prior to completing MATH 122).
- Calculus II. Satisfied by MATH 122.
- Chemistry. Satisfied by CHEM 184 (CHEM 185) and CHEM 188 (CHEM 189).
- Physics. Satisfied by PHSX 211 AND PHSX 216; and PHSX 212 AND PHSX 236.
- Biology. Satisfied by BIOL 150 (BIOL 151) and BIOL 152 (BIOL 153).

Geology Core Knowledge and Skills. Majors must complete the following core courses:

- Introduction to Geology. Satisfied by GEOL 101.
- Geology Fundamentals Laboratory. Satisfied by GEOL 103.
- Mineralogy and Structure of the Earth. Satisfied by GEOL 311.
- Sedimentology and Surface Processes. Satisfied by GEOL 331.
- Field Investigation. Satisfied by GEOL 360.
- Paleontology. Satisfied by GEOL 521 and GEOL 523.
- Stratigraphy. Satisfied by GEOL 532.
- Introduction to Hydrogeology. Satisfied by GEOL 552.
- Introductory Field Geology. Satisfied by GEOL 560.
- Structural Geology. Satisfied by GEOL 562.

Space Science Core Knowledge and Skills. Majors must complete the following core courses:

- Introductory Meteorology. Satisfied by ATMO 105.
- Introductory Astronomy Laboratory. Satisfied by ASTR 196.

Earth and Space Required Electives. Majors must complete one of the areas below:

- Geology Focus. Satisfied by 4 hours in a geology course numbered 300 or above.
- Astronomy Focus. Satisfied by 4 hours in astronomy courses numbered 300 or above. This can include 3 hours of ASTR 390 or GEOL 399, GEOL 105, GEOL 304, or GEOL 121 also can count if taken before the completion of 60 hours.

Research Methods. Satisfied by CHEM 598.

Professional Development Course Work. A minimum grade of C is required in all courses.

- Liberal Arts and Sciences. Satisfied by LA&S 290 and LA&S 291
- Curriculum and Teaching (19 hours). Satisfied by C&T 448 Reading and Writing across the Curriculum and 16 hours of courses approved by UKanTeach in curriculum and teaching. These should include courses such as Classroom Interactions (3), Knowing and Learning (3), Project Based Instruction (3), Student Teaching (6), and Special Topics Seminar (1).