I. Welcome

II. Approval of CUSA Minutes from April 28, 2015

III. Dean’s Office Update
   A. Certificates of Appreciation for Outgoing Members

IV. SAS Office Update

V. Subcommittee Chair Reports
   A. Curricular Changes/Degree Requirements
      1. Curricular Changes for Approval:
         NEW COURSES: EVRN 151*, GEOL 151*
         CHANGES: FMS 410, GEOL 311, GEOL 312, GEOL 501, GEOL 562, GEOL 572, GEOL 573,
                    GEOL 577, GIST 696*, GIST 697*, JWSH 560, REL 560, PHSX 313, POLS 493*, REL 525
         DELETIONS: N/A
      2. Degree Requirements for Approval:
         a. Change to Existing Major – BA Geology – related to GEOL 151
         b. Change to Existing Majors – BA Geology and BS Geology – calculus related
      3. KU Core Proposals:
         a. COMS 232 – Goal 3H
         b. FMS 380 – Goal 3H
         c. FMS 410 – Goal 4, Learning Outcome 1
         d. PSYC 483 – Goal 6
      4. Other:
         Draft of Proposal for Policy to Address Course Overlap between Minors

B. Academic Policies and Awards
   1. Undergraduate Certificate Proposals
      a. Mind Brain Certificate – Attachment 1
      b. Professional Communication Certificate – Attachment 2
      c. South Asian Culture Certificate – Attachment 3
      d. World Business Culture Certificate – Attachment 4

VI. Adjournment

*These courses should also be considered for one-semester approval for Fall 2015 pending final CAC action
COMMITTEE ON UNDERGRADUATE STUDIES AND ADVISING
Minutes of the Meeting for April 28, 2015

The committee met on Tuesday, April 28, 2015, at 11:15 a.m. in Room 210 Strong Hall. The following were present: Atchley, Bayer, Bradley, Cotton-Sreepelkemaker, Garibotto, Goldstein, Hilding, Holm, Kelly, Ledom, Morris, Rockey, Timm, Weis

Chair’s Welcome: Professor Atchley called the meeting to order.

Approval of CUSA Minutes: A motion was made to approve the April 14, 2015 meeting minutes of the Committee on Undergraduate Studies & Advising. The motion was seconded and passed.

Dean’s Office Update: None at this time.

SAS Office Update: Ms. Ledom announced that SAS is preparing for the upcoming DHD/Masters ceremony and dealing with other miscellaneous end-of-year issues, as well as beginning conversations with departments who currently have admission to major requirements.

Subcommittee Assignments:
A. Curricular Changes/Degree Requirements/ KU Core Proposals
   1. Curricular Changes Approved
      Professor Hilding presented the Curricular Changes nominations. A motion was made to approve the Curricular Changes. The motion was seconded and passed unanimously.

      NEW COURSES: HIST 376, LA&S 295

      CHANGES: BIOL 506, REL 524

      DELETIONS: N/A

   2. Degree Requirements for Approval:
      Professor Hilding presented the Degree Requirements nominations. A motion was made to approve the Degree Requirement. The motion was seconded and passed unanimously with the exception of Changes to Existing BA/BGS in Applied Behavioral Science, which was tabled.

      c. Changes to Existing BS in Biology – Teaching Biology Track AND BS in Geology – Earth & Space Science Licensure Track
         COMBINED BECAUSE OF IDENTICAL UKANTEACH RELATED CHANGES
      d. *Changes to Existing BA/BGS in Applied Behavioral Science *tabled
      e. Change from co-major to stand-alone major – BA in Russian, East European, and Eurasian Studies

   3. KU Core Proposals
      Professor Hilding presented the KU Core Proposal nomination. A motion was made to approve KU Core Proposal. The motion was made, seconded and passed unanimously.

      A. HWC 320 – Goal 5, Learning Outcome 1

B. Academic Policies and Awards:
   None at this time

C. Old Business:
Charge to next year’s CUSA regarding BGS proposal
An in-depth discussion of the policy resulted in the following suggestions for a charge to be given to next year’s CUSA. The charge should:

• Refer back to previous work done on this issue
• Reexamine data that has been previously considered
• Provide an outline of the recent history of this issue, likely going back at least eight years
• Encourage key users of the BGS degree to be included in discussion, through public forum or otherwise
• Encourage the committee to articulate the place of the BGS within the context of all degree types
• Encourage the committee to carefully consider the size of the degree (i.e. number of credit hours)

D. Other
Possible conflict between University & College undergraduate certificate policies
There is some possibility that the new College Undergraduate Certificate policy may be in conflict with the University Undergraduate Certificate policy. Ms. Ledom asked for CUSA’s comments on the policy in its current form. Concerns and areas that may require clarification include:

• Areas where the University policy is excessively restrictive
• Language that states students must apply and be admitted to the certificate program (in the sense that a formal application process may not make sense for every certificate program)
• Time limit to completion (under certificate program criteria)
• Procedure for expiration/renewal of approved certificates (under certificate program criteria)

Adjournment 12:33 pm
Curricular Changes/Degree Requirements

1. Curricular Changes for Approval/Motion to File

ENVIRONMENTAL STUDIES

CHANGE: NEW CROSS-LISTED COURSE
EVRN 151 ENVIRONMENTAL ETHICS: A VIEW FROM THE NATIONAL PARKS 3 N
To what extent are our National Parks protected from pollution, invasive species, mining, climate change and tourism? In this course students learn about the geologic processes that form our National Parks as well as the competing interests that stakeholders have on the land, through the application of specific case studies. (Same as GEOL 151)

FILM & MEDIA STUDIES

CHANGE: COURSE DESCRIPTION
FMS 410 RACE, CLASS, AND GENDER IN VISUAL CULTURE 3 H
(OLD) This course examines the way in which race, class, and gender are represented through visual culture, historically and in the present. The study of visual culture analyzes the way in which visual images communicate systems of beliefs, contribute to identity formation, and have an influence on our thinking about race, class, and gender. Course looks at visual objects (i.e., film, television, photography, art, advertisements, and theatre as well as visual practices, i.e., in public and private spaces.

FMS 410 US DIVERSITY IN VISUAL CULTURE 3 H
(NEW) This course examines the way in which diversity in the United States, including race, class, gender, and sexuality, are represented through visual culture, historically and in the present. The study of visual culture analyzes the way in which visual images communicate systems of beliefs, contribute to identity formation, and have an influence on our thinking about diversity. Course looks at United States visual objects (i.e., film, television, photography, art, advertisements, and theatre as well as visual practices, i.e., in public and private spaces.

GEOLOGY

CHANGE: NEW CROSS-LISTED COURSE
GEOL 151 ENVIRONMENTAL ETHICS: A VIEW FROM THE NATIONAL PARKS 3 N
To what extent are our National Parks protected from pollution, invasive species, mining, climate change and tourism? In this course students learn about the geologic processes that form our National Parks as well as the competing interests that stakeholders have on the land, through the application of specific case studies. (Same as EVRN 151)

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

GEOL 311 MINERALOGY AND STRUCTURE OF THE EARTH 3 N
(NEW) Basic identification and properties of rocks and minerals in the context of whole-earth structure and evolution. Includes basic chemical equilibria for rock and mineral systems and their bearing on processes involved with formation and evolution of Earth's crust, mantle, and core. Two lectures and one lab per week. Prerequisite: GEOL 101, CHEM 130, and eligibility for MATH 125 or MATH 115. LEC.
CHANGE: PREREQUISITE
GEOL 312 MINERAL STRUCTURES AND EQUILIBRIA LABORATORY 1 U
(OLD) A laboratory to accompany GEOL 311. Presents more rigorous analysis of the structures, compositions, and chemical equilibria governing the formation and stability of common rock-forming mineral systems. Prerequisite: GEOL 311 (may be taken concurrently), CHEM 130, and eligibility for MATH 121 or MATH 115. LAB.

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

CHANGE: PREREQUISITE
GEOL 501 ERROR ANALYSIS 1 N
(OLD) This course covers basic error analysis as it applies to geology. The course will emphasize the description and propagation of errors in data collection and reduction. Subjects include: how to report data and associated errors, error propagation in simple and complex equations, the Normal, Gaussian, and Poisson distributions, linear and higher order regression, and X-squared test. Prerequisite: MATH 121. LEC. Prerequisite:

GEOL 501 ERROR ANALYSIS 1 N
(NEW) This course covers basic error analysis as it applies to geology. The course will emphasize the description and propagation of errors in data collection and reduction. Subjects include: how to report data and associated errors, error propagation in simple and complex equations, the Normal, Gaussian, and Poisson distributions, linear and higher order regression, and X-squared test. Prerequisite: MATH 125. LEC.

CHANGE: PREREQUISITE
GEOL 562 STRUCTURAL GEOLOGY 4 N
(OLD) 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.

GEOL 562 STRUCTURAL GEOLOGY 4 N
(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 126. LEC.

CHANGE: PREREQUISITE
GEOL 572 GEOPHYSICS 3 N
(OLD) 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. 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.

GEOL 572 GEOPHYSICS 3 N
(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 127; and PHSX 115 or PHSX 212 and PHSX 236. PHSX 115 or PHSX 212 may be taken concurrently. LEC.
CHANGE: PREREQUISITE

GEOL 573 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 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.

GEOL 573 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 PHSX 528.) Prerequisite: An introductory course in geology; MATH 116 or MATH 126; and PHSX 115, PHSX 214, or PHSX 212 and PHSX 236. LEC.

CHANGE: PREREQUISITE

GEOL 577 ENVIRONMENTAL GEOPHYSICS  3  N
(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, or PHSX 212 and PHSX 236. LEC.

GEOL 577 ENVIRONMENTAL GEOPHYSICS  3  N
(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 126; and PHSX 115, or PHSX 212 and PHSX 236. LEC.

GLOBAL & INTERNATIONAL STUDIES

CHANGE: NEW COURSE

GIST 696 DIPLOMACY LAB  1  S
This course is a supplemental research lab designed to partner with a jr/sr level course offering this research lab option and an innovative program implemented by the US Department of State. Students enrolling in this course team up with a group of four or more students to address a real world problem posed by a State Department officer. This one-credit hour course is intended to function as a special lab project and must be taken in conjunction with a standard course that has a diplomacy lab option. PREREQUISITES: GIST 301, POLS 150 or POLS 170. GIST undergraduate majors must have also taken GIST 610 or GIST 697.

CHANGE: TITLE CREDIT DESCRIPTION

GIST 697 DIPLOMACY LAB  1-3  S
(OLD) This course is designed to partner with an innovative program implemented by the US Department of State. Students enrolling in this course team up with a group of four or more students to address a real world problem posed by a State Department officer. The team, with the assistance of the instructor, engages in extensive and systematic research to address the problem and presents their finding in a formal report presented to the State Department in the desired format. Throughout the semester, the students teleconference with the State Department officer posing the question and utilize their accumulated cultural, linguistic and research knowledge to tackle a real-life, global issue. Prerequisite: GIST 301 LEC.

GIST 697 RESEARCH & DIPLOMACY LAB  3  S
(NEW) This course is designed to provide students with basic tools and an understanding of interdisciplinary social science research and to simultaneously partner with an innovative program implemented by the US Department of State. While learning about the research process and research design, students enrolling in this course team up with a group of four or more students to address a real world problem posed by a State Department officer with whom they have contact through videoconferencing throughout the semester. The team engages in extensive and systematic research to address the
problem and presents their finding in a formal report presented to the State Department in the desired format. Prerequisite: GIST 301. LEC

JEWSHE STUDIES

CHANGE: COURSE DESCRIPTION
JWSH 560 CLASSICAL AND CONTEMPORARY JEWISH THOUGHT 3 H
(OLD) An introduction to individual Jewish thinkers and collective projects from Philo to the present, including The Talmud and Midrash, Middle Age and Early Modern Jewish philosophical and Talmudic rationalism and mysticism. Considers such thinkers as Spinoza, Cohen, Soloveitchik, Rosenzweig, and Levinas. (Same as JWSH 560.) Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. LEC.

JWSH 560 MODERN JEWISH THOUGHT 3 H
(NEW) This course examines how a number of prominent Jewish thinkers from the seventeenth century through the present have encountered and engaged the special challenges posed by modernity to religious traditions, including the challenge of science to the validity of miracles, the challenge of the secular state to religious authorities, and the challenge of historical studies to the integrity of scripture. Thinkers covered may include Spinoza, Mendelssohn, Frankel, Hirsch, Geiger, Hermann Cohen, Buber, Rosenzweig, Arendt, Scholem, Leo Strauss, Levinas, and Derrida. Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. (Same as REL 560.) LEC.

PHYSICS

CHANGE: PREREQUISITE
PHSX 313 GENERAL PHYSICS III 3 N GE3N LFE
(OLD) 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.

PHSX 313 GENERAL PHYSICS III 3 N GE3N LFE
(NEW) 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 or EECS 221. Corequisite: MATH 320 or MATH 220.

POLITICAL SCIENCE

CHANGE: PREREQUISITE
POLS 493 DIRECTED READINGS 1-3 U AE61
(OLD) Individual and supervised readings in selected areas of political science. Course is repeatable for different areas; however, only 3 hours of directed readings can be applied to the major. Prerequisite: Six hours of political science, 2.5 overall grade-point average, and prior consent of department. IND.

POLS 493 DIRECTED READINGS 1-3 U AE61
(NEW) Individual and supervised readings in selected areas of political science. Course is repeatable for different areas; however, only 3 hours of directed readings can be applied to the major. Prerequisite: Junior level and consent of instructor. IND.

RELIGIOUS STUDIES

CHANGE: DESCRIPTION
REL 525 JEWS AND CHRISTIANS 3 H
(OLD) This course examines the ways Jews and Christians have interacted with and characterized one another at various points in their histories. Special emphasis is placed on the gradual separation of the two religious traditions in the 1st-4th centuries. Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. (Same as JWSH 325) LEC
<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Notes</th>
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<td>REL 525</td>
<td>JEWS AND CHRISTIANS 3 H</td>
<td>This course examines the ways Jews and Christians have interacted with and characterized one another at various points in their histories. Special emphasis is placed on the gradual separation of the two religious traditions in the 1st-4th centuries. Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. (Same as JWSH 525) LEC</td>
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<td>REL 560</td>
<td>CLASSICAL AND CONTEMPORARY JEWISH THOUGHT 3 H</td>
<td>An introduction to individual Jewish thinkers and collective projects from Philo to the present, including The Talmud and Midrash, Middle Age and Early Modern Jewish philosophical and Talmudic rationalism and mysticism. Considers such thinkers as Spinoza, Cohen, Soloveitchik, Rosenzweig, and Levinas. (Same as JWSH 560.) Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. LEC.</td>
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<td>REL 560</td>
<td>MODERN JEWISH THOUGHT 3 H</td>
<td>This course examines how a number of prominent Jewish thinkers from the seventeenth century through the present have encountered and engaged the special challenges posed by modernity to religious traditions, including the challenge of science to the validity of miracles, the challenge of the secular state to religious authorities, and the challenge of historical studies to the integrity of scripture. Thinkers covered may include Spinoza, Mendelssohn, Frankel, Hirsch, Geiger, Hermann Cohen, Buber, Rosenzweig, Arendt, Scholem, Leo Strauss, Levinas, and Derrida. Prerequisite: A previous course in Religious Studies or Jewish Studies; or consent of instructor. (Same as JWSH 560.) LEC.</td>
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2. **Degree Requirements for Approval**

   **a. Change to Existing Major – BA Geology – related to GEOL 151**

   **PROPOSAL**
   Our current Geology requirements for a B.A. include a minimum of 15 hours in geology or related courses. These courses include:

   - **Solid Earth.** Select GEOL 312, GEOL 512, GEOL 513, GEOL 532, GEOL 572, GEOL 573.
   - **Surface Earth.** Select GEOL 151, 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).

   We propose adding GEOL 151 to the “Surface Earth” list of electives. GEOL 171 will only be offered intermittently due to low enrollments.

   **JUSTIFICATION**
   Over the past few years enrollment in introductory Geology courses has been declining. GEOL 171, which historically has had 700+ students, failed to have over 100 students this Fall. The Department of Geology has been working hard to create new introductory courses that are more aligned to the core goals and more appealing to undergraduate students.

   **EFFECTIVE DATE.**
   FALL 2015

   **b. Change to Existing Majors – BA Geology and BS Geology – calculus related**

   **Requirements for the B.A. Major**
   Geology Major Course Requirements - EXCERPT

   Geology Prerequisite or Co-requisite Knowledge (21-27)
   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** Calculus I (or equivalent) 3
   - or **MATH 121** Calculus I

   **Foundations of Chemistry I.** Satisfied by:

   - **CHEM 130** General Chemistry I 5

   **Physics.** Satisfied by one of the following:

   - **PHSX 111** Introductory Physics 3
   - **PHSX 114** College Physics I 1-4
   - **PHSX 211** and **PHSX 216** General Physics I and General Physics I Laboratory 2-5

   **Biology.** Satisfied by:

   - **BIOL 100** Principles of Biology 4
   - & **BIOL 102** and Principles of Biology Laboratory (or higher level biology course)
Information Technology. Satisfied by:

EECS 128 Foundations of Information Technology: _____ 3
or EECS 138 Introduction to Computing: _____

BS Geology - General Geology Option – EXCERPT

Geology Prerequisite or Co-requisite Knowledge (34-39)

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 Calculus I (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 MATH 116 prior to completing MATH 122, MATH 126) 5
MATH 125

Calculus II. Satisfied by:

MATH 122 Calculus II 5
MATH 126

Chemistry. Satisfied by:

CHEM 130 General Chemistry I
& CHEM 135 and General Chemistry II 10

Physics. Satisfied by:

PHSX 211 General Physics I
& PHSX 216 and General Physics I Laboratory 5
PHSX 212 General Physics II
& PHSX 236 and General Physics II Laboratory 4

Biology. Satisfied by BIOL:

BIOL 150 Principles of Molecular and Cellular Biology 4

Information Technology. Satisfied by one of the following:

EECS 138 Introduction to Computing: _____ 3
C&PE 121 Introduction to Computers in Engineering

BS Geology - Engineering Geology Option – EXCERPT

Geology Prerequisite or Co-requisite Knowledge (54-59)

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 Calculus I (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.) 5
MATH 125

MATH 122 Calculus II 5
MATH 126
MATH 220 Applied Differential Equations 3
MATH 290 Elementary Linear Algebra 2

Chemistry. Satisfied by:

CHEM 130 General Chemistry I
& CHEM 135 and General Chemistry II 10

Physics. Satisfied by:

PHSX 211 General Physics I
& PHSX 216 and General Physics I Laboratory 5
PHSX 212 General Physics II
& PHSX 236 General Physics II Laboratory
Information Technology. Satisfied by one of the following:
EECS 138 Introduction to Computing: ______ 3
C&PE 121 Introduction to Computers in Engineering 3
Statics. Satisfied by:
CE 201 Statics 2
Dynamics. Satisfied by:
CE 300 Dynamics 3
Strength of Materials. Satisfied by:
CE 311 Strength of Materials 3
Fluid Mechanics. Satisfied by:
CE 330 Fluid Mechanics 4
Hydrology. Satisfied by:
CE 455 Hydrology 3
Soil Mechanics. Satisfied by:
CE 487 Soil Mechanics

BS Geology - Environmental Geology Option – EXCERPT
Geology Prerequisite or Co-requisite Knowledge (40-51)
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 Calculus I (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 MATH 116 prior to completing MATH 122 MATH 126.) 5
MATH 125
Calculus II 5
Chemistry. Satisfied by:
CHEM 130 General Chemistry I
& CHEM 135 and General Chemistry II 10
Physics. Satisfied by:
Select one of the following:
PHSX 211 General Physics I
& PHSX 216 and General Physics I Laboratory 2-
PHSX 212 General Physics II
& PHSX 236 and General Physics II Laboratory (recommended) 2-
PHSX 114 College Physics I
& PHSX 115 and College Physics II 4
Biology. Satisfied by:
BIOL 150 Principles of Molecular and Cellular Biology
& BIOL 152 and Principles of Organismal Biology 8
Information Technology. Satisfied by one of the following:
EECS 138 Introduction to Computing: ______ 3
C&PE 121 Introduction to Computers in Engineering
BS Geology - Geophysics Option – EXCERPT

Geology Prerequisite or Co-requisite Knowledge (44-49)

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 125
Calculus I (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 MATH 116 prior to completing MATH 122-MATH 126)

Calculus II. Satisfied by:

MATH 122
MATH 126
Vector Calculus
Calculus III
and Elementary Linear Algebra. Satisfied by:

MATH 223
MATH 127
MATH 290
Elementary Linear Algebra
Elementary Differential Equations. Satisfied by:

MATH 320
Elementary Differential Equations

Chemistry. Satisfied by:

CHEM 130
& CHEM 135
General Chemistry I
and General Chemistry II

Physics. Satisfied by:

PHSX 211
& PHSX 216
General Physics I
and General Physics I Laboratory

PHSX 212
& PHSX 236
General Physics II
and General Physics II Laboratory

PHSX 313
General Physics III

PHSX 521
Mechanics I

PHSX 531
Electricity and Magnetism

or EECS 220
Electromagnetics I

Intro to Computing. Satisfied by one of the following:

EECS 138
Introduction to Computing: _____

Demonstrate equivalent programming skills

BS Geology - Earth and Space Science Licensure Option – EXCERPT

Geology Prerequisite or Co-requisite Knowledge (32-37)

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 125
Calculus I (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 MATH 116 prior to completing MATH 122-MATH 126)

Calculus II. Satisfied by:

MATH 122
MATH 126
Calculus II

Chemistry. Satisfied by:

CHEM 130
& CHEM 135
General Chemistry I
and General Chemistry II

10
Physics. Satisfied by:

- **PHSX 211** General Physics I
- **PHSX 216** General Physics I Laboratory
- **PHSX 212** General Physics II
- **PHSX 236** General Physics II Laboratory

Biology. Satisfied by:

- **BIOL 150** Principles of Molecular and Cellular Biology
- **BIOL 151** Principles of Molecular and Cellular Biology, Honors
- **BIOL 152** Principles of Organismal Biology
- **BIOL 153** Principles of Organismal Biology, Honors

3. **KU Core Proposals**

4. **Other**

DRAFT

Proposal to Address Allowable Overlap among Minors (text additional to current policy is in red)

**Overlap Between Requirements**

A course may be used to fulfill a KU Core or College degree-specific requirement and a minor or major requirement.

A student may earn more than one major if he or she satisfies the requirements of all majors and completes 15 hours unique to each major in consultation with advisors in each department.

One course overlap is allowed between major requirements and minor requirements.

**One course overlap is allowed between minor requirements.**