The earth and environmental sciences encompass a wide variety of studies of our planet, including the study of its composition, structure, prehistoric life, internal and surficial processes, and history. These studies have important implications for understanding how our planet functions, as well as for understanding the interactions between humans and their environment. The discipline includes numerous applications in the discovery and use of mineral, energy, and water resources; in the protection and restoration of the environment; and in planning for the impacts of natural hazards (earthquakes, landslides, etc.) and climate change on global societal development. Students undertake the study of earth and environmental sciences in the classroom, laboratory, and field.

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree in the Arts and Sciences section of the 2015-2016 Undergraduate Bulletin.

UK Core Requirements
See the UK Core section of the 2015-2016 Undergraduate Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list .................................................. 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list .................................................. 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list .................................................. 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Fulfilled by Premajor Requirement – CHE 105/CHE 111

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .............................. 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .............................. 3

VII. Quantitative Foundations
Fulfilled by Premajor Requirement – MA 123 or MA 113

VIII. Statistical Inferential Reasoning
Choose one course from approved list .................................................. 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list .................................................. 3

X. Global Dynamics
Choose one course from approved list .................................................. 3

UK Core hours .......................................................... 24

Graduation Composition and Communication Requirement (GCCR)
EES 235 Fundamentals of Geology II .................................................. 3
EES 461 Igneous and Metamorphic Petrology .................................. 4

Graduation Composition and Communication Requirement hours (GCCR) .................................................. 7

College Requirements
I. Foreign Language (placement exam recommended) ...................... 0-14
II. Disciplinary Requirements
   a. Natural Science (completed by Major Requirements) ............ 6
   b. Social Science (can be partially fulfilled by Major Requirements) .... 6
   c. Humanities ........................................................................ 6
III. Laboratory or Field Work (completed by Premajor Requirement) ...
IV. Electives .............................................................................. 6

College Requirement hours: .................................................. 18-32

Premajor Requirements
*CHE 105 General College Chemistry I ............................................ 4
*CHE 111 Laboratory to Accompany General Chemistry I .......... 1
EES 220 Principles of Physical Geology ........................................ 4
EES 295 Geoscience Orientation .................................................. 1
*MA 123 Elementary Calculus and its Applications or
*MA 113 Calculus I ................................................................. 4
*PHY 211 General Physics or
*PHY 231/241 General University Physics/Lab .......................... 5

Premajor hours: .......................................................... 19

Major Requirements

Major Core Requirements
EES 230 Fundamentals of Geology I .................................................. 3
EES 235 Fundamentals of Geology II .............................................. 3
EES 350 Regional Historical Geology ............................................. 3
EES 360 Mineralogy .............................................................. 4
EES 420GStructural Geology ..................................................... 4
EES450G Sedimentary Geology .................................................. 4
EES 461 Igneous and Metamorphic Petrology ............................... 4

Major Core hours: .......................................................... 25

Other Course Work Required for the Major
From the Major Department:
Elective I ............................................................................... 6
Choose six hours of EES courses at the 400+ level, not to include EES 495 or 496

Elective II ............................................................................... 6
Choose six additional hours of 300+ EES or related courses

NOTE: Fourteen hours at the 200 level or higher must be completed outside Geological Sciences. Partial fulfillment of this requirement can be completed by the PHY and EES Elective II Requirements ............................................. 3-14

Other Major hours: .......................................................... 0-17

Total Minimum hours Required for Degree ................................ 120

*Course used towards completion of a UK Core Requirement.

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