Geological Sciences - B.S.  

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) ......................... 3
   b. Social Science .................................................................................. 3
   c. Humanities ...................................................................................... 3
III. Laboratory or Field Work (completed by Premajor Requirement) ....... 0-3
IV. Race and Ethnicity Requirement .............................................................. 0
V. Electives ............................................................................................ 0-3

College Requirement hours: ........................................................................ 12-29

Premajor Requirements

- MA 113 Calculus I.................................................................................... 4
- MA 114 Calculus II.................................................................................. 4
- CHE 105 General College Chemistry I ................................................... 4
- CHE 111 General Chemistry I Laboratory .............................................. 1
- CHE 107 General College Chemistry II .................................................. 3
- CHE 113 General Chemistry II Laboratory .............................................. 2
- EES 220 Principles of Physical Geology .................................................. 4
- EES 230 Fundamentals of Geology I ....................................................... 3
- EES 235 Fundamentals of Geology II .................................................... 3
- EES 295 Geoscience Orientation .............................................................. 1

Premajor hours: .......................................................................................... 29

Major Requirements

Major Core Requirements

- EES 323 Field Work in Regional Geology ............................................. 6
- EES 360 Mineralogy .............................................................................. 4
- EES 420G Structural Geology ............................................................... 4
- EES 450G Sedimentary Geology ............................................................. 4
- EES 461 Igneous and Metamorphic Petrology ..................................... 4
- EES 490 Earth Dynamics .................................................................... 3

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

From the Physics Department

- PHY 211/213 General Physics or
- PHY 231/232/242/242 General University Physics .................................. 10

UK Core Requirements

See the UK Core section of the 2021-2022 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 113

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

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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 Sequence and EES Elective II Requirements................................................................. 0-4

Other Major hours: .................................................................................. 0-18

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

*Course used towards completion of a UK Core Requirement.