

Geological Sciences - B.A.

College of Arts and Sciences

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.

Students in earth and environmental sciences earn the Bachelor of Science or Bachelor of Arts degree with a major in Geological Sciences. The B.S. program is designed for students who plan a career as a professional geologist or who plan to attend graduate school. The B.A. program is designed for students planning a career in public policy relating to earth science and environmental issues, earth-science education, business (environmental consulting), environmental law, or environmental medicine.

120 hours (minimum)

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 2022-2023 Undergraduate Bulletin.

UK Core Requirements

See the *UK Core* section of the 2022-2023 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
II. Intellectual Inquiry in the Humanities Choose one course from approved list
III. Intellectual Inquiry in the Social Sciences Choose one course from approved list
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
VI. Composition and Communication II CIS/WRD 111 Composition and Communication II
VII. Quantitative Foundations Fulfilled by Premajor Requirement – MA 123 or MA 113
VIII. Statistical Inferential Reasoning Choose one course from approved list
IX. Community, Culture and Citizenship in the USA Choose one course from approved list
X. Global Dynamics Choose one course from approved list
UK Core hours

Graduation Composition and Communication Requiremen
(GCCR)

EES 235 Fundamentals of Geology II
Graduation Composition and Communication Requirement hours (GCCR)
College Requirements
I. Foreign Language (placement exam recommended)
a. Natural Science (completed by Major Requirements) b. Social Science (can be partially fulfilled by Major Requirements)
III. Laboratory or Field Work (completed by Premajor Requirement) IV. Race and Ethnicity Requirement
College Requirement hours:
Premajor Requirements *CHE 105 General College Chemistry I
EES 220 Principles of Physical Geology
*MA 123 Elementary Calculus and its Applications or
*MA 113 Calculus I
*PHY 211 General Physics or
*PHY 231/241 General University Physics/Lab
Major Requirements
Major Core Requirements 3 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 420G Structural Geology 4 EES 450G Sedimentary Geology 4 EES 461 Igneous and Metamorphic Petrology 4
Major Core hours:
Other Course Work Required for the Major From the Major Department:
Elective I
Elective II
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
Other Major hours:0-17

*Course used towards completion of a UK Core Requirement.

University of Kentucky is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or online at www.sacscoc.org for questions about the accreditation of University of Kentucky.