

GEOLOGICAL SCIENCES, BA

Degree: Bachelor of Arts (BA)

Major: Geological Sciences

Program Overview

Students in Earth, Environmental, and Planetary Sciences obtain a solid background in basic science and mathematics as well as intensive training in the major. In addition, because of the wide variety of ways in which geologic knowledge can be applied, all students are encouraged to take electives in subjects appropriate to their personal objectives, which may range from the engineering applications of geology to the socioeconomic and legal systems bearing on environmental issues. The undergraduate programs stress practical experience and fieldwork as well as classroom study.

All students participate in a three-semester Senior Project sequence in which they propose a research project, conduct the research, write a thesis, and present it to the department.

Undergraduate Policies

For undergraduate policies and procedures, please review the Office of Undergraduate Studies section of the General Bulletin.

Accelerated Master's Programs

Undergraduate students may participate in accelerated programs toward graduate or professional degrees. For more information and details of the policies and procedures related to accelerated studies, please visit the Office of Undergraduate Studies section of the General Bulletin.

Program Requirements

Students seeking to complete this major and degree program must meet the general requirements for bachelor's degrees and the general requirements of the College of Arts and Sciences. Students completing this program as a secondary major while completing another undergraduate degree program do not need to satisfy the latter set of requirements.

Code	Title	Hours
Required courses:		
EEPS 110	Physical Geology	3
or EEPS 101	The Earth and Planets	
or EEPS 115	Introduction to Oceanography	
EEPS 119	Geology Laboratory	1
EEPS 210	Earth History: Time, Tectonics, Climate, and Life	3
EEPS 301	Stratigraphy and Sedimentation	3
EEPS 315	Structural Geology and Geodynamics	3
EEPS 317	Introduction to Field Methods	3
EEPS 341	Mineralogy	4
EEPS 344	Igneous and Metamorphic Petrology	4
EEPS 360		6
EEPS 390	Introduction to Geological Research	3
EEPS 391	Senior Project	2
EEPS 392	Professional Presentation	2

Nine hours of approved electives (at least two of these courses must be at the 200 level or higher) 9

Additional Required Courses

CHEM 105	Principles of Chemistry I	3
CHEM 106	Principles of Chemistry II	3
CHEM 113	Principles of Chemistry Laboratory	2
MATH 125	Math and Calculus Applications for Life, Managerial, and Social Sci I	4
or MATH 121	Calculus for Science and Engineering I	
MATH 126	Math and Calculus Applications for Life, Managerial, and Social Sci II	4
or MATH 122	Calculus for Science and Engineering II	
or MATH 124	Calculus II	
PHYS 115	Introductory Physics I	4
or PHYS 121	General Physics I - Mechanics	
or PHYS 123	Physics and Frontiers I - Mechanics	
PHYS 116	Introductory Physics II	4
or PHYS 122	General Physics II - Electricity and Magnetism	
or PHYS 124	Physics and Frontiers II - Electricity and Magnetism	

Total Hours 70

EEPS 360 provides comprehensive field training in the summer between the junior and senior years (this course necessitates transfer credit, which must be approved by the department).