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## Geology Major (B.S.)

66-68 credit hours required.

Research specializations include geophysics, paleontology, mineralogy, sedimentary geology, igneous or metamorphic petrology, geochemistry, structural geology, clay mineralogy or environmental geology.

A student's chosen research field will govern elective courses and cognate requirements.

<b>Core Required Courses:</b>	<b>Credits</b>
GEOL 100, 101, 103, 106, 125, or 195	3
GEOL 204 Historical Geology	3
GEOL 301 Sedimentary Geology	4
GEOL 302 Principals of Paleontology	4
GEOL 311 Mineralogy	4
GEOL 321 Optics and Petrology	4
GEOL 405 Structural Geology	4
GEOL 407 Geophysics I	3
GEOL 420 Geochemistry	3

### Required Research Component:

one of the following

GEOL 480 Geology Research	6
INTD 491 Geology Internship	4

### Electives:

6 credit hours from the following, selected by advisement

GEOL 300 Field Geology	3
GEOL 370 Science in Society	3
GEOL 395 Hydrology & Hydrogeology	3
GEOL 395A Geographic Information Systems	3
GEOL 409 Seismology	3
GEOL 421 Environmental Geology Problems	3
GEOL 440 Geologic Resources	3

### Cognate Requirements:

24 credit hours.

CHEM 105 General Chemistry I	4
CHEM 106 General Chemistry II	4
MATH 151 Calculus I	4
MATH 152 Calculus II	4
or	
MATH 125 Statistics	4
PHYS 101 College Physics I	4
PHYS 202 College Physics II	4

Students whose research focuses on Paleontology may, under advisement, take Biology instead of Physics. Those whose research focuses on environmental problems may take Organic Chemistry instead of Physics II.