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<th>FAL_1</th>
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<tr>
<td>MATH 120 or MATH 125 PRECALCULUS OR PRECALCULUS W/ ALGEBRA</td>
<td>CHEM 111 GENERAL CHEMISTRY I</td>
<td>GEOL 210 PHYSICAL AND ENVIRONMENTAL GEOLOGY</td>
<td>GEOL 211 HISTORICAL GEOLOGY</td>
<td>Upper Division Core Geology Sequence (Offered in a 3-semester scheduling cycle)</td>
<td>GEOL 361 IGNEOUS AND METAMORPHIC PETROLOGY (SPRING ONLY)</td>
<td>GEOL 371 SEDIMENTARY GEOLGY AND STRATIGRAPHY</td>
<td>GEOL 499 CAPSTONE SEMINAR IN GEOSCIENCES (SPRING ONLY)</td>
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<tr>
<td>MATH 120 or MATH 125 PRECALCULUS OR PRECALCULUS W/ ALGEBRA</td>
<td>CHEM 111L GENERAL CHEMISTRY I LABORATORY</td>
<td>CHEM 112 GENERAL CHEMISTRY II</td>
<td>PHYS 125 PRINCIPLES OF PHYSICS I</td>
<td>PHYS 126 PRINCIPLES OF PHYSICS II (F/SP)</td>
<td>PHYS 135 PHYSICS FOR SCIENTISTS AND ENGINEERS I</td>
<td>PHYS 136 PHYSICS FOR SCIENTISTS AND ENGINEERS II</td>
<td>PHYS 137 PHYSICS FOR SCIENTISTS AND ENGINEERS II</td>
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<tr>
<td>MATH 130 CALCULUS I</td>
<td>PHYS 125 PRINCIPLES OF PHYSICS I</td>
<td>PHYS 125 PRINCIPLES OF PHYSICS I</td>
<td>PHYS 126 PRINCIPLES OF PHYSICS II (F/SP)</td>
<td>PHYS 135 PHYSICS FOR SCIENTISTS AND ENGINEERS I</td>
<td>PHYS 136 PHYSICS FOR SCIENTISTS AND ENGINEERS II</td>
<td>PHYS 137 PHYSICS FOR SCIENTISTS AND ENGINEERS II</td>
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Choose ONE group of 3 courses: Group 1 or Group 2

Group 1:
- PHYS 125 PRINCIPLES OF PHYSICS I
- PHYS 126 PRINCIPLES OF PHYSICS II (F/SP)
- GEOL 260 / GEOG 225 INTRODUCTION TO GIS IN EARTH AND ENVIRONMENTAL SCIENCES (FALL ONLY)

Group 2:
- PHYS 135 PHYSICS FOR SCIENTISTS AND ENGINEERS I
- PHYS 136 PHYSICS FOR SCIENTISTS AND ENGINEERS II
- PHYS 137 PHYSICS FOR SCIENTISTS AND ENGINEERS II

Intro and Advanced Field Experience
(GEOL 397 must be taken TWICE. See course details on page 2.)

**KEY**
- COMPLETE 9 UNITS OF UD GEOLOGY ELECTIVES
- COMPLETE ALL UPPER DIVISION REQUIREMENTS
- COMPLETE ALL LOWER DIVISION REQUIREMENTS
- COMPLETE ONE QUANTITATIVE ELECTIVE

For more information regarding the Geology B.S., scan the QR code.
Pre-Requisites:

Geology Electives
(Complete at least 9 units when offered)

- ENSC 350
- ENVIRONMENTAL HYDROLOGY
- GEOL 432
- HYDROGEOLOGY
- GEOL 311
- GEOMORPHOLOGY
- GEOL 441
- EARTHQUAKE GEOLOGY
- GEOL 431
- APPLIED GEOPHYSICS
- GEOL 497
- ISSUES IN GEOSCIENCES
- GEOL 398
- INTERNSHIP
- GEOL 490
- INDEPENDENT STUDY
- GEOL 341
- GENERAL OCEANOGRAPHY
- GEOL 342
- PLANETARY GEOLOGY
- GEOL 343
- ATMOSPHERIC SCIENCE

Quantitative Elective
(Complete ONE when offered)

- MATH 130
- CS 400
- COMPUTER PROGRAMMING FOR SCIENCE
- MATH 131
- CALCULUS II
- STAT 320
- INTRODUCTION TO PROBABILITY THEORY I
- CMGT 310
- STATISTICS AND STRENGTH OF MATERIALS
- MATH 131
- STATISTICS AND PROBABILITY FOR SCIENCE AND ENGINEERING
- MATH 230 AND PHYS 137 OR PHYS 126
- PHYS 330
- ANALYTIC MECHANICS
- PHYS 125
- MATH 130
- PHYS 137
- PHYS 126

Intro/Advanced Field Experience Details

- Offered once a year, currently in Fall terms
- Students spend 1 full day/week in a natural, outdoor laboratory setting
- Applied field-based inquiry activities to introduce fundamental field skills that are common to field research in geology and environmental sciences

- Offered once a year, currently in Summer terms
- GEOL B.S. requires TWO enrollments in GEOL 397
- Students spend two weeks (overnight stay) in a natural, outdoor laboratory setting
- Applied field-based inquiry activities to develop advanced field skills that are common to field research in geology and environmental sciences

Only one course from the following may apply to GEOL elective units:

- PHYS 125 & 126
- CHEM 110 OR CHEM 111
- RECOMMENDED

- GEOL 341
- ATMOSPHERIC SCIENCE
- RECOMMENDED

- GEOL 342
- PLANETARY GEOLOGY
- RECOMMENDED

- GEOL 343
- GENERAL OCEANOGRAPHY
- RECOMMENDED

- GEOL 344
- EARTHQUAKE GEOLOGY
- RECOMMENDED

- GEOL 345
- APPLIED GEOPHYSICS
- RECOMMENDED

- GEOL 346
- ISSUES IN GEOSCIENCES
- RECOMMENDED

- GEOL 347
- INTERNSHIP
- RECOMMENDED

- GEOL 348
- INDEPENDENT STUDY
- RECOMMENDED

These quantitative elective courses have pre-requisites that are included in the GEOL major requirements.