Program of Study Guidelines
122 total credit hours for the degree
Full time schedule: 15+ credits per semester

Geology B.S.

**Step 1**
- GEOL 103 (Environmental Geology)
- MATH 120 (Calc. I)*
- GEOL 105 (Earth History)
- CHEM 111
- BIOL 101/111 or PHYS 101/111

**Step 2**
- GEOL 250^ or CHEM 112
- GEOL 256** (Min./Pet.)
- GEOL 272^ (Strat./Sed.)
- GEOL 291 (Water Resour.)
- GEOL 333^ (Paleobiology)
- GEOL 352** (Structural Geology)
- BIOL 102/112 or PHYS 102/112
- MATH 220 (Calc. II) or MATH 250 (Statistics)

**Step 3**
- GEOL 303 or 491 (Independent Study or Senior Thesis)
- GEOL 492 (Senior Seminar)
- GEOL Elective
- GEOL Elective
- Field Studies course (Summer)

*Geology B.S. majors should take MATH 101 (if needed) and then MATH 111 (Pre-Calc) to prepare for MATH 120.

**Usually Fall only  ^Usually Spring only

Contact the Department for more information: callahant@cofc.edu
Program of Study Guidelines
rev. September 2020

122 total credit hours for the degree

Full time schedule: 15+ credits per semester

Geology B.S.

**Required Courses:**
- GEOL 103 Environmental Geology (3)
- GEOL 103L Environmental Geology Laboratory (1)
- GEOL 105 Earth History (3)
- GEOL 105L Earth History Laboratory (1)
- GEOL 256 Mineralogy and Petrology (4)
- GEOL 272 Stratigraphy and Sedimentation (4)
- GEOL 291 Water Resources (4)
- GEOL 333 Paleobiology (4)
- GEOL 352 Structural Geology (4)
- GEOL 360 (4) OR GEOL 364 (4) OR GEOL 365 (4) OR GEOL 366 (4) [All are Field Studies]
- GEOL 492 Senior Seminar (1)

Complete 9 or more Credit Hours of:
(at least 6 of these credit hours must be at the 250-level with a maximum of 3 credit hours from GEOL 260 and GEOL 260L or GEOL 460L):
- GEOL 206 Planetary Geology (3)
- GEOL 213 Natural Hazards (3)
- GEOL 235 Geology and Civilization (3)
- GEOL 239 Introduction to Seafloor Mapping (2)
- GEOL 240 Special Topics in Geology (1-4)
- GEOL 257 Marine Geology (4)
- GEOL 260 NASA Space Mission Design (2)
  - GEOL 260L NASA Lab (1) OR GEOL 460L NASA Leadership Lab (1)
- GEOL 275 Geomorphology (4)
- GEOL 303 Independent Study in Geology (1-3)
- GEOL 312 Environmental Field Methods (3)
- GEOL 314 Introduction to Remote Sensing (4)
- GEOL 320 Earth Resources (3)
- GEOL 339 Seafloor Research (3)
- GEOL 357 Oceanographic Research-the Transect Program (4)
- GEOL 360 Field Studies (4)
- GEOL 364 Field Studies: Environmental Geology and Water Resources in the Developing World (4)
- GEOL 365 Field Studies: Geology and Environmental Geosciences in Africa (4)
- GEOL 366 Field Studies: Geology and Paleontology (4)
- GEOL 395 Special Topics in Geology (1-4)
- GEOL 402 Geospatial Science (4)
- GEOL 411 Tectonics (3)
- GEOL 412 Crustal Geophysics (3)
- GEOL 416 Paleocoeology (4)
- GEOL 430 Sedimentary Petrology (4)
- GEOL 434 Geology of the Carolinas (3)
- GEOL 438 Hydrogeology (4)
- GEOL 440 Igneous & Metamorphic Petrology (4)
- GEOL 441 Pollution in the Environment (4)
Program of Study Guidelines
122 total credit hours for the degree

Full time schedule: 15+ credits per semester

**Geology B.S.**

- GEOL 444 Quantitative Hydrogeology (3)
- GEOL 449 Geographical Information Systems (4)
- GEOL 469 Advanced GIS - Environmental and Hazards Modeling (4)
Program of Study Guidelines
122 total credit hours for the degree
Full time schedule: 15+ credits per semester

**Geology B.A.**

**Step 1**
- GEOL 103 (Environmental Geology)
- MATH 111 (Pre-Calc.)*
- GEOL 105 (Earth History)
- CHEM 111
- BIOL 101/111 or PHYS 101/111

**Step 2**
- MATH 250 (Statistics)
- GEOL 250^ or CHEM 112
- GEOL 256** (Mineral/Petrol.)
- GEOL 272^ (Strat./Sed.)
- GEOL 291 (Water Resources)
- GEOL 333^ (Paleobiology)
- GEOL 352** (Structural Geology)
- BIOL 102/112 or PHYS 102/112

**Step 3**
- GEOL 303 or 491 (Independent Study or Senior Thesis)
- GEOL 492 (Senior Seminar)
- GEOL Elective
- GEOL Elective

*Geology B.A. majors should take MATH 101 (if needed) to prepare for MATH 111.

**Usually Fall only   ^Usually Spring only

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Geology B.A.

Complete 7 Credit Hours of
(at least 6 of these credit hours must be at the 250-level with a maximum of 3 credit hours from GEOL 260 and GEOL 260L or GEOL 460L):

GEOL 206 Planetary Geology (3)
GEOL 213 Natural Hazards (3)
GEOL 235 Geology and Civilization (3)
GEOL 239 Introduction to Seafloor Mapping (2)
GEOL 240 Special Topics in Geology (1-4)
GEOL 257 Marine Geology (4)
GEOL 260 NASA Space Mission Design (2)
  GEOL 260L NASA Lab (1)   OR   GEOL 460L NASA Leadership Lab (1)
GEOL 275 Geomorphology (4)
GEOL 303 Independent Study in Geology (1-3)
GEOL 312 Environmental Field Methods (3)
GEOL 314 Introduction to Remote Sensing (4)
GEOL 320 Earth Resources (3)
GEOL 339 Seafloor Research (3)
GEOL 357 Oceanographic Research-the Transect Program (4)
GEOL 360 Field Studies (4)
GEOL 364 Field Studies: Environmental Geology and Water Resources in the Developing World (4)
GEOL 365 Field Studies: Geology and Environmental Geosciences in Africa (4)
GEOL 366 Field Studies: Geology and Paleontology (4)
GEOL 395 Special Topics in Geology (1-4)
GEOL 402 Geospatial Science (4)
GEOL 411 Tectonics (3)
GEOL 412 Crustal Geophysics (3)
GEOL 416 Paleoecology (4)
GEOL 430 Sedimentary Petrology (4)
GEOL 434 Geology of the Carolinas (3)
GEOL 438 Hydrogeology (4)
GEOL 440 Igneous & Metamorphic Petrology (4)
GEOL 441 Pollution in the Environment (4)
Program of Study Guidelines

122 total credit hours for the degree

Full time schedule: 15+ credits per semester

Geology B.A.

GEOL 444 Quantitative Hydrogeology (3)
GEOL 449 Geographical Information Systems (4)
GEOL 469 Advanced GIS – Environmental and Hazards Modeling (4)
122 total credit hours for the degree  
Full time schedule: 15+ credits per semester

**GEOLOGY AND ENVIRONMENTAL GEOSCIENCES COURSE SCHEDULE**

These courses are 4 credits/6 contact-hour, lecture + lab format.

<table>
<thead>
<tr>
<th>FALL 2020</th>
<th>SPRING 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>256: Mineralogy/Petrology</td>
<td>253: Earth System Science (new course for EGEO)*</td>
</tr>
<tr>
<td>291: Water Resources</td>
<td>272: Stratigraphy and Sedimentation</td>
</tr>
<tr>
<td>352: Structural Geology</td>
<td>333: Paleobiology</td>
</tr>
<tr>
<td>492: Senior Seminar</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL 2021</th>
<th>SPRING 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>256: Mineralogy/Petrology</td>
<td>256: Mineralogy/Petrology</td>
</tr>
<tr>
<td>291: Water Resources</td>
<td>272: Stratigraphy and Sedimentation</td>
</tr>
<tr>
<td>313: Critical Zone Science (new course for EGEO)*</td>
<td>291: Water Resources</td>
</tr>
<tr>
<td>352: Structural Geology</td>
<td>313: Critical Zone Science (new course for EGEO)</td>
</tr>
<tr>
<td>492: Senior Seminar</td>
<td>333: Paleobiology</td>
</tr>
</tbody>
</table>

*proposed

**SUMMER FIELD COURSES**

|------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|
Program of Study Guidelines
122 total credit hours for the degree
Full time schedule: 15+ credits per semester

**University requirements:**

<table>
<thead>
<tr>
<th>Humanities</th>
<th>First Year Experience</th>
<th>English</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑️ 12 credits from approved Humanities courses with no more than 6 from the same discipline</td>
<td>☑️ FYE or Hons BGS</td>
<td>☑️ English 110 OR a combination of approved courses (101*, 102*, 215); Exemption is possible</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foreign Language</th>
<th>History</th>
<th>Social Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑️ Completion of 202 or its equivalent; Exemption is possible</td>
<td>☑️ Pre-modern History, Modern era History</td>
<td>☑️ Social Science 1, Social Science 2</td>
</tr>
</tbody>
</table>

**Course number, semester**

First Year Experience: __________

Foreign Language: __________ __________ __________ __________

Humanities: __________ __________ __________ __________

Social Sciences: __________ __________

English*: __________ __________

History: __________ __________

*English 101 and 102 are not offered by College of Charleston but continue to be available through approved credit [Advanced Placement (AP), International Baccalaureate (IB), or Transfer (TR)].