Program of Study Guidelines
122 total credit hours for the degree

Full time schedule: 15+ credits per semester

Geology B.S.

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ GEOL 103 (Environmental Geology)</td>
<td>□ GEOL 250^ or CHEM 112</td>
<td>□ GEOL 303 or 491 (Independent Study or Senior Thesis)</td>
</tr>
<tr>
<td>□ MATH 120 (Calc. I)*</td>
<td>□ GEOL 256** (Min./Pet.)</td>
<td>□ GEOL 492 (Senior Seminar)</td>
</tr>
<tr>
<td>□ GEOL 105 (Earth History)</td>
<td>□ GEOL 272^ (Strat./Sed.)</td>
<td>□ GEOL Elective</td>
</tr>
<tr>
<td>□ CHEM 111</td>
<td>□ GEOL 291 (Water Resour.)</td>
<td>□ GEOL Elective</td>
</tr>
<tr>
<td>□ BIOL 101/111 or PHYS 101/111</td>
<td>□ GEOL 333^ (Paleobiology)</td>
<td>□ Field Studies course (Summer)</td>
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<tr>
<td></td>
<td>□ GEOL 352** (Structural Geology)</td>
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<tr>
<td></td>
<td>□ BIOL 102/112 or PHYS 102/112</td>
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<tr>
<td></td>
<td>□ MATH 220 (Calc. II) or</td>
<td></td>
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<tr>
<td></td>
<td>MATH 250 (Statistics)</td>
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</tr>
</tbody>
</table>

*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
122 total credit hours for the degree

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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 Field Studies (4)
  - OR GEOL 364 Field Studies: Environmental Geology and Water Resources in the Developing World (4)
  - OR GEOL 365 Field Studies: Geology and Environmental Geosciences in Africa (4)
  - OR 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)
- GEOL 444 Quantitative Hydrogeology (3)
- GEOL 449 Geographical Information Systems (4)
- GEOL 469 Advanced GIS - Environmental and Hazards Modeling (4)

**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)
  - OR GEOL 260L NASA 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)
- GEOL 444 Quantitative Hydrogeology (3)
- GEOL 449 Geographical Information Systems (4)
- GEOL 469 Advanced GIS - Environmental and Hazards Modeling (4)
Program of Study Guidelines
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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

*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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Program of Study Guidelines  

122 total credit hours for the degree

Full time schedule: 15+ credits per semester

**Geology B.A.**

**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 492 Senior Seminar (1)

[Note: one of the GEOL 360, 364, 365, 366 Field Studies courses are NOT required for the B.A. degree]

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 Paleoclimatology (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)
- GEOL 444 Quantitative Hydrogeology (3)
- GEOL 449 Geographical Information Systems (4)
- GEOL 469 Advanced GIS – Environmental and Hazards Modeling (4)
Program of Study Guidelines
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GEOLOGY AND ENVIRONMENTAL GEOSCIENCES COURSE SCHEDULE

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

<table>
<thead>
<tr>
<th>FALL 2019</th>
<th>SPRING 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>291: Water Resources</td>
<td>256: Mineralogy/Petrology</td>
</tr>
<tr>
<td>333: Paleobiology</td>
<td>272: Stratigraphy and Sedimentation</td>
</tr>
<tr>
<td>352: Structural Geology</td>
<td>291: Water Resources</td>
</tr>
<tr>
<td>492: Senior Seminar</td>
<td>333: Paleobiology</td>
</tr>
<tr>
<td></td>
<td>492: Senior Seminar</td>
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</tbody>
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<table>
<thead>
<tr>
<th>FALL 2020</th>
<th>SPRING 2021</th>
</tr>
</thead>
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<td>256: Mineralogy/Petrology</td>
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<tr>
<td></td>
<td>492: Senior Seminar</td>
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<table>
<thead>
<tr>
<th>SUMMER</th>
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<tbody>
<tr>
<td>GEOL 360: Geological Sciences (New Mexico). Even Maymester</td>
<td>GEOL 364: Water Resources (northern India). Even-numbered Summer 1</td>
</tr>
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Program of Study Guidelines
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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>

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<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</td>
<td>☐ Social Science 1</td>
</tr>
<tr>
<td></td>
<td>☐ Modern era History</td>
<td>☐ 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)].