Program of Study Guidelines
122 total credit hours for the degree
63+ credits for GENV

Full time schedule: 15+ credits per semester

Environmental Geosciences B.S.

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
- □ GEOL 250^ or CHEM 112
- □ GEOL 253** (Earth Syst.) □ GEOL 272^ (Strat./Sed.)
- □ GEOL 291 (Water Resour.) □ GEOL 313^ (Critical Zone)
- □ BIOL 102/112 or PHYS 102/112 □ Elective‡
- □ MATH 250 (Statistics) □ Elective

Step 3
- □ GEOL 303, 491 or 499 (Independent Study, Senior Thesis or Bachelor’s Essay)
- □ GEOL 492 (Senior Seminar) □ Elective
- □ Elective
- □ Elective
- □ Elective
- □ Field Studies course (Summer)

* Students should first complete MATH 110 (formerly MATH 101) if they did not place into MATH 111 (Pre-Calc).

** Usually Fall only  
^ Usually Spring only

‡ Students must take 3 credits from a selected list of BIOL, CHEM, ECON, PHYS, POLS or URST courses

Contact the Department for more information:
callahant@cofc.edu or whitekl@cofc.edu
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Environmental Geosciences B.S.

**Course Descriptions**

**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 253 Earth Systems Science (4)
- GEOL 272 Stratigraphy and Sedimentation (4)
- GEOL 291 Water Resources (4)
- GEOL 313 Critical Zone Science (3)
- GEOL 362 or GEOL 364 or GEOL 365 (All are Field Studies)
- GEOL 492 Senior Seminar (1)

**Complete 15 or more Credit Hours of:**
(at least 6 of these credit hours must be at the 250-level):

- GEOL 213 Natural Hazards (3)
- GEOL 240 Special Topics in Geology (1-4)
- GEOL 257 Marine Geology (4)
- GEOL 275 Geomorphology (4)
- GEOL 288 Global Change (3)
- GEOL 303 Independent Study in Geology (1-3)
- GEOL 312 Environmental Field Methods (3)
- GEOL 320 Earth Resources (3)
- GEOL 385 Internship (1-4)
- GEOL 395 Special Topics in Geology (1-4)
- GEOL 399 Tutorial (1-3)
- GEOL 402 Geospatial Science (4)
- GEOL 412 Crustal Geophysics (3)
- GEOL 438 Hydrogeology (4)
- GEOL 441 Pollution in the Environment (4)
- GEOL 442 Geological Application of Remote Sensing (4)
- GEOL 449 Geographical Information Systems (4)
- GEOL 469 Advanced GIS - Environmental and Hazards Modeling (4)
- GEOL 491 Senior Thesis
- GEOL 495 Special Topics (1-4)
- GEOL 499A Bachelor’s Essay (3)
- GEOL 499B Bachelor’s Essay (3)
122 total credit hours for the degree
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**GEOLOGY & ENVIRONMENTAL GEOSCIENCES**

**PROPOSED CORE COURSE SCHEDULE** (subject to change)

Required core courses listed are for **GENV** majors.
Courses are 4 credits/6 contact-hour, lecture + lab format, unless noted.

<table>
<thead>
<tr>
<th>FALL 2023</th>
<th>SPRING 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>253: Earth Systems Science</td>
<td>250: Introduction to Geochemistry (<em>or CHEM 112</em>)</td>
</tr>
<tr>
<td>291: Water Resources</td>
<td>272: Stratigraphy and Sedimentation</td>
</tr>
<tr>
<td>492: Senior Seminar</td>
<td>291: Water Resources (tentative)</td>
</tr>
<tr>
<td></td>
<td>313: Critical Zone Science (tentative)</td>
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**SUMMER FIELD STUDIES COURSES** (choose one)


Core courses for GENV are in red.
^See Chemistry Department for course schedule
Program of Study Guidelines
rev. September 2022
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Full time schedule: 15+ credits per semester

University requirements:

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

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<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>Pre-modern History</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)).