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>
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<tr>
<th>FALL 2022</th>
<th>SPRING 2023</th>
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<tr>
<td>253: Earth Systems Science*</td>
<td>250: Introduction to Geochemistry (or CHEM 112^)</td>
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<td>291: Water Resources</td>
<td>272: Stratigraphy and Sedimentation</td>
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<th>SUMMER FIELD STUDIES COURSES (choose one)</th>
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<tr>
<td>GEOL 362: Environ. Geosci. (Colorado)*</td>
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<tr>
<td>2022 - Summer 2</td>
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<td>GEOL 365: Environ. Geosci. (South Africa).</td>
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<tr>
<td>2023</td>
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<tr>
<td>GEOL 364: Water Resources (India).</td>
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<td>2024</td>
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Core courses for GENV are in red.
* New Course
^See Chemistry Department for course schedule
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
- MATH 250 (Statistics)

**Step 3**
- GEOL 303, 491 or 499 (Independent Study, Senior Thesis or Bachelor’s Essay)
- GEOL 492 (Senior Seminar)
- 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
Program of Study Guidelines  
rev. June 2022

122 total credit hours for the degree
63+ credits for GENV

Full time schedule: 15+ credits per semester  

**Environmental Geosciences 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 253 Earth Systems Science (4)
- GEOL 272 Stratigraphy and Sedimentation (4)
- GEOL 291 Water Resources (4)
- GEOL 313 Critical Zone Science (3)
- GEOL 362 (4) OR GEOL 364 (4) OR GEOL 365 (4) [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: A Geological Perspective (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 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)
Program of Study Guidelines

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

University requirements:

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

- **Foreign Language**: □
  - Completion of 202 or its equivalent; Exemption is possible

- **History**
  - Pre-modern History
  - Modern era History

- **Social Science**
  - Social Science 1
  - Social Science 2

**Course number, semester**

- **First Year Experience**: __________
- **Foreign Language**: __________    __________    __________    __________
- **Humanities**: __________    __________    __________    __________
- **Social Sciences**: __________    __________
- **English**: __________    __________

*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)].