

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study

| | | | | of Study. Major | | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|--------------------|--------------|-------------------------------------------|-------|
| ritical | | | | GPA ² | | Prerequisites | Notes |
| | ter One (13-14 Credit Hours) | | | | | | |
| ! | ENGL 101 Critical Reading and Composition | 3 | С | | CC-CMW | | |
| - | MATH 122 Calculus for Bus. Admin. & Soc. Sciences | 3-4 | Č | | | MATH 111/111/115 <i>(MATH 122)</i> ; MATH | |
| | or MATH 141 Calculus I ³ | 0. | Ŭ | | 00744 | 115 (MATH 141); or Math placement test | |
| | | | | | | | |
| | CEOL 404 Instruction to the Earth | 4 | | | PR | score | |
| | GEOL 101 Introduction to the Earth | 4 | | | PR | | |
| | or GEOL 103 Environment of the Earth | | | | | | |
| | or GEOL 201 Observing the Earth (fall only) | | | | | | |
| | UNIV 101 The Student in the University | 3 | | | PR/CC | | |
| | or Carolina Core Requirement ⁴ | | | | | | |
| emes | ter Two (17-18 Credit Hours) | | | 1 | | | |
| 1 | ENGL 102 Rhetoric and Composition | 3 | С | | CC-CMW | C or better in ENGL 101 | |
| • | | Ŭ | Ŭ | | CC-INF | | |
| | MATH 170 Finite Mathematics | 3-4 | С | | CC-ARP | MATH 111/1111 <i>or</i> 112 or Math | |
| | | 3-4 | C | | CC-ARP | | |
| | or MATH 142 Calculus II | | | | | placement test score (MATH 170); | |
| | | | | | | MATH 141 <i>(MATH 142)</i> | |
| | CHEM 111 & 111L – General Chemistry I | 4 | | | CC-SCI | MATH 115 or Math placement test score | |
| | GEOL 302 Rocks and Minerals (spring only) | 4 | С | | MR | GEOL 101, 103, or 201 (CHEM 111 | |
| | | | _ | | | recommended) | |
| | Foreign language⁵ <i>or</i> other Carolina Core | 3 | | | CC-GFL | | |
| | Requirement ⁴ | 5 | | | JO OIL | | |
| | | L | L | | l | | |
| emes | ter Three (15 Credit Hours) | | | | | | |
| | GEOL 325 Stratigraphy & Sed. Basins (fall only) | 4 | С | | MR | D or better in GEOL 302 | |
| | GEOL 345 Igneous & Metamorphic Proc. (fall only) | 4 | С | | MR | GEOL 302 & MATH 122 or 141 | |
| | PHYS 201 & 201L – General Physics I | 4 | | | CC-SCI | C or better in MATH 111/111i/112/ | |
| | or PHYS 211 & 211L – Essentials of Physics I | | | | | 115/116/122/141 or higher (PHYS 201); | |
| | | | | | | MATH 141 (PHYS 211) | |
| | Foreign language ^₅ <i>or</i> other Carolina Core | 3 | | | CC-GFL | | |
| | Requirement ⁴ | 5 | | | 00-01 L | | |
| | | | | | | | |
| semes | ter Four (14 Credit Hours) | | 1 | 1 | | | |
| | GEOL 305 Earth Systems through Time (spring only) | 4 | С | | MR | | |
| | or GEOL 335 Processes of Global Environmental | | | | | | |
| | Change (cross-listed: MSCI 335) (spring only) | | | | | | |
| | PHYS 202 & 202L – General Physics II | 4 | | | PR | See Bulletin listing. | |
| | or PHYS 212 & 212L – Essentials of Physics II | | | | | g. | |
| | or CHEM 112 & 112L – General Chemistry II | | | | | | |
| | or Offering the first of the state of the st | | | | | | |
| | or BIOL 101 & 101L – Biological Principles I | - | | | | | |
| | Cognate Course ⁶ | 3 | | | PR | | |
| | Foreign language ⁵ or Carolina Core Requirement ⁴ | 3 | | | CR/CC | | |
| emes | ter Five (14 Credit Hours) | | | | | | |
| | GEOL 355 Structural Geol. & Tectonics (fall only) | 4 | С | | MR | GEOL 302 & PHYS 201 or 211 | |
| | PHYS 202 & 202L – General Physics II | 4 | Ē | | PR | See Bulletin listing. | |
| | | -+ | | | | See Duileutt lisuity. | |
| | or PHYS 212 & 212L – Essentials of Physics II | | | | | | |
| | or CHEM 112 & 112L – General Chemistry II | | | | | | |
| | or BIOL 102 & 102L – Biological Principles I | | | | | | |
| | History ⁷ | 3 | | | CR | | |
| | Carolina Core Requirement ⁴ | 3 | | | CC | | |
| emes | ter Six (17 Credit Hours) | | • | • | · | | |
| | GEOL 315 Surface & Near Surface Proc. (spring only) | 4 | С | | MR | PHYS 201 or 211 | |
| | | 4 | C | | MR | | |
| | GEOL 305 Earth Systems through Time (spring only) | 4 | C | | IVIT | | |
| | or GEOL 335 Processes of Global Environmental | | | | | | |
| | Change (cross-listed: MSCI 335) (spring only) | | | | | | |
| | Cognate Course ⁶ | 3 | | | PR | | |
| | STAT 201 Elementary Statistics | 3 | | | CR | MATH 111, 115 or STAT 110 (STAT | |
| | or STAT 509 Statistics for Engineers | - | | | | 201); MATH 142 (STAT 509); MATH 141 | |
| | or STAT 515 Statistical Methods I | | | | | or 115 & a statistics class (STAT 515) | |
| | Carolina Core Requirement ⁴ | 3 | | | CC | | |
| | | 3 | l | I | | | |
| THE ALL AND | er (4-6 Credit Hours) | | | | | | |
| unnin | | 10 | \sim | | | | |
| | GEOL 500 Field Geology ⁸ (summer only) | 4-6 | С | | MR CC-INT | GEOL 325 & 355 | |

| GEOL Major Elective (399 or above) | 3 | С | M | IR | See Bulletin listing. | 1 |
|------------------------------------------------------------------------------------------------------------------------------|-----|---|----|-----|-----------------------|---|
| Cognate Course ⁶ | 3 | | P | R | | |
| CSCE 102 General Applications Programming | 3 | | C | R | | |
| Humanities or Fine Arts | 3 | | C | R | | |
| Carolina Core Requirement ⁴ or Approved Elective ⁹ | 3 | | CC | /PR | | |
| ester Eight (12-15 Credit Hours) | | | | | | |
| Cognate Course ⁶ | 3 | | P | R | | |
| GEOL Major Elective (399 or above) | 3 | С | M | IR | See Bulletin listing. | |
| GEOL Major Elective (399 or above) | 3 | С | M | IR | See Bulletin listing. | |
| Social Science | 3 | | C | R | | |
| Carolina Core Requirement ⁴ or Approved Elective ⁹ (only if needed to meet CC or hours to graduate) | 0-3 | | CC | /PR | | |

Graduation Requirements Summary

| Minimum Total Hours | | | Carolina Core Hours | Minimum Institutional GPA | |
|------------------------|----|-------|---------------------|------------------------------|--|
| 120 | 41 | 39-48 | 32-44 | 2.000 | |

- 1. Regardless of individual course grades, students must maintain a minimum 2.000 cumulative GPA.
- Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
 Students who place into MATH 111 or 115 will be required to complete it successfully before taking MATH 122 or 141. MATH 111/115 may be used as an approved elective. Students who start with MATH 111/115 should use the following sequence for the first three semesters:

| an approved elective. Students who start with MATH 111/115 should use the following sequence for the first three semesters: | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------|--|--|--|
| Semester One | Semester Two | Semester Three | | | |
| ENGL 101 | ENGL 102 | GEOL 325 | | | |
| GEOL 101, 103 or 201 | MATH 122 or 141 | GEOL 345 | | | |
| MATH 111 or 115 | CHEM 111 & 111L | MATH 170 or 142 | | | |
| UNIV 101 or Carolina Core Requirement | GEOL 302 | PHYS 201 & 201L or 211 & 211L | | | |
| | Foreign Language or other Carolina Core Req. | Foreign language or Carolina Core Req. | | | |

4. The <u>Carolina Core</u> provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.

5. Students in the College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.

- 6. The cognate is intended to support the course work in the major. The cognate must consist of twelve hours of courses at the advanced level, outside of, but related to the major. A minor or second major eliminates the cognate requirement.
- 7. The College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.
- 8. GEOL 500 is a summer course, which takes place in Colorado. Students must indicate to the SEOE undergraduate office their plans to attend field camp in January, which is prior to registering for GEOL 500.
- No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences.

Program Notes:

- Courses identified as "critical" must be completed in the student's first 60 semester hours of work in order for these courses to be credited toward graduation.
- A Degree with Distinction is available to students majoring in Geological Sciences who wish to participate in significant research activities in their major field under the supervision of a faculty mentor. Requirements include: 1) a minimum GPA of 3.5 in the major and 3.3 overall; 2) written sponsorship agreement from the faculty mentor on file in the SEOE Undergraduate Student Services office; 3) a public presentation of the Senior Thesis research accompanied by a written document approved by the faculty mentor and a second reader that follows the guidelines of the degree program; and 4) three courses in addition to the major requirements, including: GEOL 498 or GEOL 499, GEOL 699, and a minimum of one GEOL 500-level course appropriate to the research.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the <u>Carolina Core</u> page on the University website.

| Codes: | | | |
|--------|------------------------------------------------------------------------------------|--------|-----------------------------------------------------------|
| CC | Carolina Core | CC-INF | Carolina Core – Information Literacy |
| CC-AIU | Carolina Core-Aesthetic and Interpretive Understanding | CC-INT | Carolina Core – Integrative Course |
| CC-ARP | Carolina Core-Analytical Reasoning and Problem-Solving | CC-SCI | Carolina Core – Scientific Literacy |
| CC-CMS | Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component | CC-VSR | Carolina Core – Values, Ethics, and Social Responsibility |
| CC-CMW | Effective, Engaged, and Persuasive Communication: Written Component | CR | College Requirement |
| CC-GFL | Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language | MR | Major Requirement |
| CC-GHS | Carolina Core – Historical Thinking | PR | Program Requirement |
| CC-GSS | Carolina Core – Social Sciences | | |

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.