

**Contact person:** [Dr. Drew S. Coleman](#), undergraduate advisor in Geology

**Departmental requirements\*:**

- One of the following** (students may receive credit for only one of 101 [11], 105 [13], 109 [18] and 111 [41]):
  - GEOL 101 [11], 101L [11L] Physical Geology (3 + 1 hours, fall and spring)
  - GEOL 103 [12] The Marine Environment (3 hours, fall and spring)
  - GEOL 105 [13], 101L [13L] The Violent Earth (3 + 1 hours, spring)
  - GEOL 109 [18], 109L [18L] Earth, Climate and Life (3 + 1 hours, fall and spring)
  - GEOL 111 [41] Physical Geology for Science Majors (4 hours, fall or spring).
  - GEOL 159 [16], 159L [16L] Prehistoric Life (3 + 1 hours, spring)
  
- All of the following:**
  - MATH 130 [30] Precalculus Mathematics (3 hours, fall or spring) **or higher**
  - CHEM 101/101L [11/11L] General Descriptive Chemistry I with lab (4 hours, fall or spring)
  - GEOL 202 [42] Earth Through Time (3 hours, fall or spring; prereq. one of GEOL 101 [11], 103 [12], 105 [13], 109 [18], or 111 [41], 159 [16])
  - GEOL 301 [52] Earth Materials (4 hours, fall; prereq. 11 or 41 or permission; prereq. or coreq. CHEM 11).
  
- 11 Credits of the following:**
  - GEOL First Year Seminar [006] (3 hours, fall/spring).
  - GEOL 204 [49] Planetary Geology (3 hours, spring; prereq. one of GEOL 101 [11], 103 [12], 105 [13], 109 [18], or 111 [41]).
  - GEOL 211 [48] Environmental Geology (3 hours, fall/spring; prereq. one of 11, 12, 13, 18, or 41).
  - GEOL 213 [45] Earth's Dynamic Systems (3 hours, spring; prereq. one of GEOL 101 [11], 103 [12], 105 [13], 109 [18], or 111 [41]).
  - GEOL 401 [58] Structural Geology (4 hours, fall; prereq. one of GEOL 101 [11], 103 [12], 105 [13], 109 [18], or 111 [41]).
  - GEOL 402 [57] Sedimentology and Stratigraphy (4 hours, spring; prereq. GEOL 101 [11] or 111 [41] or equiv. and 301 [52])
  - GEOL 404 [53] Igneous and Metamorphic Rocks (4 hours, spring; prereq. GEOL 301 [52] or permission)
  
- One of the following:**
  - GEOL 390 [199] (6 hours over two semesters with a pre-approved field component)
  - GEOL 413 [137] Field Paleontology (4 hours; Fall, alternate years; prereq. GEOL 402 [57] and one of 101 [11], 109 [16], 111 [41], or 159 [16])
  - GEOL 601 + 602 [128 + 129] Summer Field Course in Geology (6 hours, first summer session; prereq. GEOL 301 [52], 401 [58], 402 [57], and 404 [53])
  - ANTH 451 [151] Field School in Archaeology (6 hours)
  - BIOL 459 [195] Field Biology at Highlands Biological Station (4 hours; prereq. BIOL 101 [11] or equiv. or permission)
  - MASC 472 [138] Barrier Island Ecology and Geology (6 hours, summer; prereq. general biology or geology or permission)

- At least three Geology or allied science courses from the following list:**
- any GEOL **except** GEOL 101 [11], 103 [12], 105 [13], 109 [18], 111 [41].
  - ANTH 143 [43] Human Evolution and Adaptation (3 hours, fall and spring)
  - ANTH 220 [110] Principles of Archaeology (3 hours, fall and spring)
  - ANTH 315 [115] Human Genetics and Evolution (3 hours, fall or spring)
  - ANTH 317 [117] Evolutionary Perspectives on Human Adaptation and Behavior (3 hours, fall or spring)
  - ANTH 412 [112] Paleoanthropology (3 hours, fall and spring)
  - ANTH 414 [114] Human Osteology (4 hours, fall or spring)
  - ANTH 451 [151] Field School in Archeology (6 hours)
  - any ASTR **except** First Year Seminar
  - any BIOC **except** First Year Seminar, BIOC 107 [007]. 108 [008] and [40]. *Not in 2006 curriculum.*
  - any BIOL **above** BIOL 113 [10]
  - BIOS [101] The Fundamentals of Biostatistics (3 hours, fall) *Not in 2006 curriculum.*
  - any CHEM **above** CHEM 101 [11].
  - any COMP  $\geq$  110 **except** 380 [96].
  - ECON 101 [10] Introduction to Economics (3 hours, fall and spring)
  - ECON [111] Resource and Environmental Economics (3 hours, fall or spring; prereq. ECON 310 [100] or 410 [101] or permission). *Not in 2006 curriculum.*
  - ECON 454 [165] Economics of Population (3 hours, fall or spring)
  - ENST 489 [103] Ecologic Processes in Environmental Systems (4 hours, spring; prereq. MATH 231 [31], BIOL 101 [11] and 201 [54], CHEM 102 [21], PHYS 105 [25] or 117 [27], or permission)
  - ENST 490 [104] Atmospheric Processes in Environmental Systems (4 hours, fall; prereq. MATH 231 [31], CHEM 102 [21], PHYS 105 [25] or 117 [27], GEOG 253 [53], or permission)
  - any ENVR **except** First Year Seminar and ENVR 600 [101] Environmental Health
  - GEOG 111 [11] Weather and Climate (3 hours, fall and spring)
  - GEOG 253 [53] Atmospheric Processes (4 hours, fall; prereq. MATH 231 [31] and PHYS 104 [24] or CHEM 102 [21])
  - GEOG 370 [70] Introduction to Geographic Information (3 hours, fall or spring)
  - GEOG 410 [110] Fundamental Concepts of Physical Geography (3 hours, fall; prereq. GEOG 110 [10] or equiv.)
  - GEOG 412 [112] Synoptic Meteorology (3 hours, fall; prereq. GEOG 110 [10] or 111 [11])
  - GEOG 414 [114] Physical Climatology (3 hours, fall; prereq. GEOG 110 [10] or 111 [11])
  - GEOG 416 [116] Applied Climatology (3 hours, fall or spring; prereq. GEOG 412 [112] or 414 [114])
  - GEOG 419 [119] Terrain Analysis (3, spring and summer)
  - GEOG 440 [140] Earth Surface Processes (3 hours, spring; prereq. GEOG 110 [10] or GEOL 101 [11])
  - GEOG 441 [141] Introduction to Watershed Systems (3 hours, fall; prereq. GEOG 110 [10])
  - GEOG 444 [144] Landscape Biogeography (3 hours, fall or spring)
  - any GEOG **above** 477 [173]
  - any MASC **above** MASC 101 [12]
  - any MATH **above** MATH 130 [30]
  - any PHYS **except** First Year Seminar, PHYS 100 [16], 101 [20], 132 [37], [84], and 313 [113].
  - any STOR 155 [STAT 31] or **above**.

\* all course numbers are updated to 2006 curriculum. Pre-2006 course numbers in brackets.