

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).

- All of the following:**
 - GEOL 301 [52] Earth Materials (4 hours, fall; prereq. GEOL 101 [11] or 111 [41] or permission; prereq. or coreq. CHEM 101 [11]).
 - 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)
 - GEOL 601 and 602 [128 and 129] Summer Field Course in Geology (6 hours, first summer session; prereq. GEOL 301 [52], 402 [57], 403 [58], and 404 [53])
 - CHEM 101 [11], 101L [11L] General Descriptive Chemistry I (3 + 1 hours, fall, spring, and summer)
 - CHEM 102 [21], 102L [21L] General Descriptive chemistry II (3 + 1 hours, fall, spring, and summer)
 - MATH 231 [31] Calculus of Functions of One Variable I (3 hours, fall and spring; prereq. grade of C- or better in MATH 130 [30] or placement)
 - MATH 232 [32] Calculus of Functions of One Variable II (3 hours, fall and spring; prereq. grade of C- or better in MATH 231 [31] or placement)

- One of the following:**
 - GEOL 520 [152] (note that this course may double count as a Geology course **above** 400 [97])
 - BIOS [101] Fundamentals of Biostatistics (3 hours, fall). *Not in 2006 curriculum.*
 - any COMP \geq 110 **except** 380 [96]
 - any MATH **above** 232 [32]
 - any STOR 155 [STAT 31] **or above**

- One of the following:**
 - PHYS 104 [24], 104L [24L] General Physics with lab (4 + 1 hours, fall and spring)
 - PHYS 116 [26] Mechanics (4 hours, fall and spring)

- One of the following:**
 - BIOL 101 [11], 101L [11L] Principles of Biology with lab (3 + 1 hours, fall and spring)
 - any CHEM **above** CHEM 102 [21]
 - PHYS 105 [25], 105L [25L] General Physics with Lab (4 + 1 hours, fall and spring)
 - PHYS 117 [27] Electromagnetism and Optics (4 hours, fall and spring)

Four Geology courses *above* 400 [97]:

- 1.
- 2.
- 3.
- 4.

At least five 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 102 [21].
- any COMP \geq 110 **except** 380 [96]
- any ENVR **except** First Year Seminar and ENVR 600 [101] Environmental Health
- 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 or spring; prereq. 110 [10] or 111 [11])
- GEOG 416 [116] Applied Climatology (3 hours, fall or spring; prereq. GEOG 412 [112] or 414 [114])
- any GEOG **above** 477 [173]
- any MASC **above** MASC 101 [12]
- any MATH **above** MATH 232 [32]
- any PHYS **except** First Year Seminar, PHYS 100 [16], 101 [20], 132 [37], [84], and 313 [113].
- any STOR 155 [STAT 31] or **above**.