B.S. in Geology with Concentration in Environmental Geology STUDENT 10/8/07

Contact person: Dr. Drew S. Coleman, undergraduate advisor in Geology

Departmental requirements*:

☐ **One of the following** (students may receive credit for only one of 11/11L, 13/13L, 18/18L, and 41/41L):
- ☐ 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)
- ☐ 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 430 [125] Coastal Sedimentary Environments (3 hours spring of alternate years) **and** GEOL 434 [123] Marine Carbonate Environments (4 hours spring of alternate years)
- ☐ GEOL 601 **and** 602 [128 **and** 129] Summer Field Course in Geology (6 hours, first summer session; prereq. GEOL 301 [52], 401 [58], 402 [57] and 404 [53])
- ☐ GEOL 691 **and** 692 [98 **and** 99] Honors Courses (3 + 3 hours fall and spring; preq. GPA 3.2 or higher with a field component previously approved by the Department)
- ☐ 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 equivalent or permission)
- ☐ CHEM 481 [181], 481L [181L] Physical Chemistry I with Lab (3 + 2 hours, fall and spring) **and** CHEM 482 [182], 482L [182L] Physical Chemistry II with Lab (3 + 2 hours, fall and spring)
- ☐ MASC 472 [138] Barrier Island Ecology and Geology (6 hours summer; prereq. general biology or geology or permission)
- ☐ PHYS 201 [52] Basic Mechanics (3 hours spring) **and** PHYS 211 [58] Intermediate Electromagnetism (3 hours fall)

☐ **One of the following:**
- ☐ GEOL 520 [152]
- ☐ BIOS 101 Fundamentals of Biostatistics (3 hours, fall). *Not in 2006 curriculum.*
- ☐ any COMP ≥ 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] **and** 105 [25], 105L [25L] General Physics with lab (4 + 1 hours, fall and spring)
- ☐ PHYS 116 [26] Mechanics (4 hours, fall and spring) **and** PHYS 117 [27] Electromagnetism and Optics (4 hours, fall and spring)

☐ **One of the following course combinations:**
- ☐ BIOL 201 [54] Ecology and Population Biology (4 hours, fall, spring, and summer) **and** ENST 489 [103] Ecological Processes in Environmental Systems (4 hours, spring)
- ☐ GEOG 253 [53]/ENST [53] Introduction to Atmospheric Processes (4 hours, fall) **and** ENST 490 [104] Atmospheric Processes in Environmental Systems (4 hours, fall)
- ☐ MASC 470 [154] Estuarine and Coastal Marine Science (4 hours, fall) **and** GEOL [112]/MASC 411 [112]/ENST 102 Oceanic Processes in Environmental Systems (4 hours, spring).

☐ **At least five geology or allied science courses from the following list:**
- ☐ any GEOL **except** 101 [11], 103 [12], 105 [13], 109 [18], 111 [41]
- ☐ ANTH 139 [139] Environmental Anthropology (3 hours, fall or spring)
- ☐ 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 438 [138] Religion, Nature, and Environment (3 hours, fall)
- ☐ ANTH 451 [151] Field School in Archeology (6 hours)
- ☐ any ASTR course **except** First Year Seminar.
- ☐ any BIOC **except** First Year Seminar, BIOC 107 [007]. 108 [008] and [40]. *Not in 2006 curriculum*.
- ☐ any BIOL **above** 113 [10]
- ☐ BIOS [101] The Fundamentals of Biostatistics (3 hours, fall). *Not in 2006 curriculum*.
- ☐ any CHEM **above** 102 [21].
- ☐ any COMP ≥ 110 **except** 380 [96].
- ☐ ECON 101 [10] Introduction to Economics (3 hours, fall and spring)
- ☐ ECON 340 [140] Introduction to Public Finance (3 hours, fall and spring)
- ☐ ECON 410 [101] Intermediate Theory: Price and Distribution (3 hours, fall and spring.)
- ☐ ECON [111] Resource and Environmental Economics (3 hours, fall or spring; prereq. ECON 100 or 101 or permission). *Not in 2006 curriculum*.
- ☐ ECON [120] Location and Space Economy (3 hours, fall; prereq. 100 or 101 or permission). *Not in 2006 curriculum*.
- ☐ ECON 440 [141] Analysis of Public Finance (3 hours, fall and spring; prereq. ECON 100 or 101)
- ☐ ECON 454 [165] Economics of Population (3 hours, fall or spring)
- ☐ ECON 460 [161] International Economics (3 hours, fall and spring; prereq. ECON 310 [100] or 410 [101])
- ☐ ECON 465 [163] Economic Development (3 hours, fall and spring; prereq. ECON 310 [100] or 410 [101])
- ☐ ECON 511 [183] Game Theory in Economics (3 hours, fall; prereq. ECON 410 [101] and MATH 233 [33] or permission)
- ☐ ECON 540 [142] Advanced Topics in Public Finance (3 hours, fall or spring; prereq. ECON 340 [140] or 440 [141])
- ☐ 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.)

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☐ ***list of 5 allied sciences continued***

- ☐ 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. 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 111 [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 [171].
- ☐ 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].
- ☐ PLAN 246 [46] Introduction to Urbanism and Planning (3 hours, fall, spring, or summer)
- ☐ PLAN [94A] Future Aalyses and Forecasting (3 hours, spring). *Not in 2006 curriculum*.
- ☐ PLAN [124] Urbanization and Planning in the Third World (3 hours, fall). *Not in 2006 curriculum*.
- ☐ PLAN [125] Urban Services and Infrastructure (3 hours, fall). *Not in 2006 curriculum*.
- ☐ any STOR 155 [STAT 31] or **above**.

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