

**UNIVERSITY REQUIREMENT (3)**

\_\_\_ *UNIV 100 First Year Seminar (3) – freshmen only*

**ENGLISH (6)**

\_\_\_ *ENGL 101 Introduction to Academic Writing (3)*

Prereq: ENGL ACT of 18

\_\_\_ *ENGL 102 Writing and Research about Culture (3)*

Prereq: ENGL ACT of 28 or ENGL 101

**MATHEMATICS (8)**

\_\_\_ *MATH 270 Calculus I (4)<sup>1</sup>*

Prereq: MATH ACT of 28, MATH SAT of 630, or MATH 109 and MATH 110, or MATH 143

\_\_\_ *MATH 301 Calculus II (4)<sup>2</sup>*

Prereq: MATH 270 or MATH 272

**SOCIAL/BEHAVIORAL SCIENCE (6)**

\_\_\_ *Any ANTH, ECON, GEOG, POLS, PSYC, SOCI, CJUS (3)*

\_\_\_ *ECON 300 Fundamentals of Economics (3)*

Note: Student cannot receive credit for ECON 201 and ECON 300.

**HUMANITIES (12)**

\_\_\_ *CMCN 100 Principles of Human Communication (3)*

\_\_\_ *HIST xxx History requirement (3)*

\_\_\_ *ENGL xxx Literature Requirement (3)*

Prereq: ENGL 102 or ENGL 115

\_\_\_ *ENGL 365 Technical Writing (3)*

Prereq: ENGL 102 or ENGL 115 and 60 credits toward degree;  
Coreq: 15 credit hours in the student's major field

**FINE ARTS (3)**

\_\_\_ *Choose from approved DANC, MUSC, THEA, or VIAR (3)*

**FREE ELECTIVE (3)**

\_\_\_ *Any course is acceptable*

**GEOLOGY (47)<sup>3</sup>**

\_\_\_ *GEOL 111 Physical Geology (4)*

\_\_\_ *GEOL 112 Historical Geology (4)*

Prereq: GEOL 105 or GEOL 111

\_\_\_ *GEOL 291 Elementary Mineralogy (4)*

Prereq/Coreq: CHEM 107; GEOL 106 and 108, or 112/Fall

\_\_\_ *GEOL 292 Elementary Petrology (4)*

Prereq: GEOL 291 or permission from instructor/Spring

\_\_\_ *GEOL 314 Structural Geology (4)*

Prereq: MATH 110 and GEOL 111 or GEOL 105 and GEOL 107/Fall

\_\_\_ *GEOL 330 Field Methods (3)*

Prereq: GEOL 314/Spring

\_\_\_ *GEOL 339 Sedimentology & Stratigraphy (3)*

Prereq: GEOL 292/Fall

\_\_\_ *GEOL 400 Summer Field Camp (6)*

Prereq: GEOL 292 and GEOL 330/Summer

\_\_\_ *GEOL 420(G) Geophysics I (4)*

Prereq: MATH 270, PHYS 208/Spring

\_\_\_ *GEOL 431(G) Introduction to Geochemistry (3)*

Prereq: GEOL 292 or graduate student standing/Spring

\_\_\_ *GEOL 435 Analysis of Geologic Data (3)*

Prereq: GEOL 111 (majors only)/Spring

\_\_\_ *GEOL 499 Geology Seminar (2)*

Prereq: GEOL 341/Spring

\_\_\_ *GEOL Elective (3)*

Any 300- or 400-level GEOL or ENVS class

**Interdisciplinary (17)**

\_\_\_ *BIOL Elective (4)*

Choose any BIOL course in consultation with academic advisor.

\_\_\_ *CHEM 107 General Chemistry I (3)*

Prereq: MATH ACT of 23 or MATH SAT of 540 or MATH 103/104 or 105

\_\_\_ *ENGL 304 Vocabulary Development (3)*

Prereq: English 102 or ENGL 115

\_\_\_ *PHYS 207 Introduction to Physics I (3)*

Prereq: MATH 110, MATH 143, MATH 210, MATH 270 or MATH 272

\_\_\_ *PHYS 208 Introduction to Physics II (3)*

Prereq: PHYS 207

\_\_\_ *PHYS 215 Physics Laboratory I (1)*

Prereq: PHYS 201 or PHYS 207

**Concentration Courses (15)**

Energy Resources Concentration (15) – list on back

Environmental Geology Concentration (15) – list on back

Paleontology Concentration (15) – list on back

Earth Sciences Concentration (15) – list on back

**General Geology Notes**

<sup>1</sup> Students who meet the criteria set by the Department of Mathematics may register for MATH 270/272 upon entry. Those who do not meet these qualifications must take MATH 143. Students are advised to complete this course in the summer semester prior to the freshman year. MATH 270 and 301 must be completed with a "C" or better.

<sup>2</sup> With the approval of the Department of Geology, TWO of the following may be substituted for MATH 301: STAT 427 (G), STAT 428 (G), or ENVS 455 (G) and ENVS 464 (G). Note: most graduate programs and many professional careers require the second calculus course.

<sup>3</sup> All GEOL courses must be completed with a "C" or better.

## GEOLOGY, B.S. (S410) – 2023-2024 CATALOG

### Energy Resources Concentration Courses (15)

\_\_\_ *GEOL 363 Invertebrate Paleontology (3)*

Prereq: GEOL 111/Even Spring

OR

\_\_\_ *GEOL 491 Micropaleontology (3)*

Prereq: GEOL 112/Even Fall

\_\_\_ *GEOL 410(G) Subsurface Geology (3)*

Pre/Coreq: GEOL 314 and GEOL 341/Fall

\_\_\_ *GEOL 430(G) Seismic Interpretation (3)*

Pre/Coreq: GEOL 410 and GEOL 420/Fall

\_\_\_ *GEOL 456(G) Basin Analysis (3)*

Prereq: GEOL 314 and GEOL 341/Fall

\_\_\_ *GEOL Elective (3)*

Choose from any GEOL or ENVS 300- or 400-level course.

### Paleontology Concentration Courses (15)

\_\_\_ *GEOL 363 Invertebrate Paleontology (3)*

Prereq: GEOL 111/Even Spring

\_\_\_ *GEOL 422(G) Museum Techniques (3)*

Prereq: GEOL 341 or permission from instructor/Odd Fall

\_\_\_ *GEOL 464(G) Vertebrate Paleontology (3)*

Prereq: GEOL 341 or permission from instructor/Even Fall

\_\_\_ *GEOL 491 Micropaleontology (3)*

Prereq: GEOL 112/Even Fall

\_\_\_ *GEOL Elective (3)*

Choose from any GEOL or ENVS 300- or 400-level course.

### Environmental Geology Concentration Courses (15)

\_\_\_ *GEOL 355 Environmental Geology (3)*

Prereq: GEOL 105, GEOL 111, or GEOL 225/Fall

\_\_\_ *GEOL 460(G) Site Assessment and Remediation (3)*

Prereq: GEOL 105 and 107, or GEOL 111/Spring

\_\_\_ *GEOL 470(G) Ground Water (3)*

Prereq: GEOL 292 and GEOL 314 or permission from instructor/Fall

\_\_\_ *GEOL 480(G) - Remote Sensing (3)*

Prereq: GEOL 291/Even Fall

\_\_\_ *GEOL Elective (3)*

Choose from any GEOL or ENVS 300- or 400-level course.

### Earth Sciences Concentration Courses (15)

- Choose 1 course each Petroleum Geology, Environmental Geology, and Paleontology concentrations. (9)
- Choose 2 courses from any GEOL or ENVS 300- or 400-level course. (6)

### Elective Courses

\_\_\_ *GEOL 411(G) - Special Problems (1-3)*

Prereq: Instructor permission

\_\_\_ *GEOL 416(G) – GIS in Geology (3)*

Prereq: GEOL 337/Even Spring

\_\_\_ *GEOL 419(G) – Subsurface Mapping Project (1-3)*

Prereq: GEOL 410 and Instructor permission/Spring

\_\_\_ *GEOL 432(G) – Instrumental Examination of Earth Materials (3)*

Prereq: GEOL 292/Even Fall

\_\_\_ *GEOL 433(G) - Clay Mineralogy (3)*

Prereq: GEOL 339 and CHEM 107, or Instructor permission/Even Fall

\_\_\_ *GEOL 440(G) - Oceanography (3)*

Prereq: GEOL 314/Odd Fall