

**B. A. Geology (GLY)**

With\*\* or Without Teacher Licensure in Earth Sciences Option

*College: Arts & Sciences***DEGREE REQUIREMENTS**

Course requirements for all UNCW degrees include: (1) Basic Studies, (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

**(1) BASIC STUDIES** (45 semester hours)See Basic Studies sheet and/or information on the WEB at <http://www.uncw.edu/uc/basicstudies.htm>**(2) MAJOR REQUIREMENTS - GLY** (Minimum 49-52 hours)

Check when complete:

- \_\_\_\_\_ **\*+GLY 101 or \*+120** Principles of Geology (4) or Environmental Geology w/ lab (4)  
 \_\_\_\_\_ **+GLY 135 or +150** Prehistoric Life (3) or Introduction to Oceanography (3)  
 \_\_\_\_\_ **\*+GLY 171** Physical Geology (4) Prerequisite or corequisite: MAT 111  
 \_\_\_\_\_ **\*+GLY 172** The Earth Through Time (4) Prerequisite: GLY 101 or GLY 120 and GLYL 120  
 \_\_\_\_\_ **\*GLY 201** Mineralogy (4) Prerequisite: GLY 101; prerequisite or corequisite: CHM 101  
 (Meets **Computer Competency Requirement**)  
 \_\_\_\_\_ **\*GLY 310** General Petrology (4) Prerequisite: GLY 200, 201, or consent of instructor  
 \_\_\_\_\_ **GLY 489** The Dynamic Earth (3) Prerequisites: Senior standing w/ a major in GLY and completion of 15 hours in the major from courses at the 200 level and above  
 \_\_\_\_\_ **GLY 495** Senior Seminar (1-3) Prerequisite: Senior standing w/ a major in GLY and completion of 18 hrs in the major from courses at the 200-level and above  
 (Meets **Oral Communication Competency Requirement**)  
 \_\_\_\_\_ **\*+CHM 101** General Chemistry (4)  
 \_\_\_\_\_ **+MAT 111-112 or 115 or 161** College Algebra - Trig. (3-3) or Precalculus (3) or Calculus w/ Analytical Geometry (4)  
 \_\_\_\_\_ **GLY \_\_\_\_\_**  
 \_\_\_\_\_ **GLY \_\_\_\_\_**  
 \_\_\_\_\_ **GLY \_\_\_\_\_** Choose at least 15 GLY elective hours from any 200-level or higher GLY course, 10 or which  
 \_\_\_\_\_ **GLY \_\_\_\_\_** must be courses above the 299 level.  
 \_\_\_\_\_ **GLY \_\_\_\_\_**

**\*\*Teacher Licensure:** The following additional courses are required:

- \_\_\_\_\_ **\*+BIO 204** Principles of Biology: Cells (4)  
 \_\_\_\_\_ **\*+BIO 205 or 206** Principles of Biology: Plants (4) or Principles of Biology: Animals (4)  
 Prerequisite: BIO 204, EVS 195 or consent of instructor  
 \_\_\_\_\_ **+GLY 150** Oceanography (3)  
 \_\_\_\_\_ **+PHY 260** Introduction to Astronomy (3)  
 \_\_\_\_\_ **+GGY 230** Introduction to Weather and Climate (3)

Students planning to pursue licensure should apply to the Watson School of EDN as soon as admissions requirements are met (typically in the sophomore year) and plan their programs in regular consultation with their advisors. Teacher licensure requirements are established at the state level and may be changed by the state at any time. For information on the Teacher Education Program admissions criteria and the courses required for licensure in NC, see the Watson School of Education section of the 2006-2007 catalogue or the Watson School of Education WEB site: [http://www.uncw.edu/catalogue/wse.htm#CURRICULAR STUDIES](http://www.uncw.edu/catalogue/wse.htm#CURRICULAR_STUDIES).

**A "C" (2.00) or better average is required on all courses taken within the department, and a "C" (2.00) or better average on all required courses above the 199 level in the department is required.**

*\*These courses either include a lab or require a co-requisite lab*

*+May also be used to satisfy Basic Studies requirements*

**(3) Electives**

\_\_\_\_\_ Elective hours to equal a minimum of 124 hours

**Requirements to declare GLY:** Completion of 24 hours

For further information see the GLY WEB site: <http://www.uncw.edu.earscl/> and Watson School of Education site [http://www.uncw.edu/ed/deglicenpdfs/ps\\_sc.pdf](http://www.uncw.edu/ed/deglicenpdfs/ps_sc.pdf)

## GEOLOGY COURSES

- GLY 101. Principles of Geology (4)**  
**GLY 120. (EVS 120) Environmental Geology (3) GLYL 120. (EVSL 120) Lab (1)**  
**GLY 125. Natural Disasters (3)**  
**GLY 131. Dinosaurs (2)**  
**GLY 135. Prehistoric Life (3)**  
**GLY 150. Introduction to Oceanography (3)**  
**GLY 171. Physical Geology (4)** Prerequisite or corequisite: MAT 111  
**GLY 172. The Earth Through Time (4)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVSL 120) or GLY 171  
**GLY 200. Methods in Geology (3)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVSL 120) or GLY 171  
**GLY 201. Mineralogy (4)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVSL 120) or GLY 171; corequisite or prerequisite CHM 101  
**GLY 220. Field Methods in Environmental Sciences (3)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVSL 120) or GGY 130; and MAT 111  
**GLY 226. (GGY 235) Principles of Hydrology (3)** Prerequisite: GGY 130 or GLY 101 or GLY 120 (EVS 120)  
**GLY 240. Geology of North Carolina (3)** Prerequisite: Any 100-level GLY course or permission of instructor  
**GLY 250. Beaches and Coasts (3)** Prerequisite: GLY 101 or GLY 120 or GLY 150  
**GLY 280. Special Topics in Geology (1-4)**  
**GLY 310. General Petrology (4)** Prerequisite: GLY 200, 201, or consent of instructor  
**GLY 311. Igneous and Metamorphic Petrology (4)** Prerequisite: GLY 200, 201  
**GLY 312. Sedimentary Petrology (4)** Prerequisite: GLY 201; corequisite or prerequisite GLY 200  
**GLY 335. (GGY 335) Geomorphology (4)** Prerequisite: GLY 101 or GGY 130 or GLY 120 (EVS 120) and GLYL 120 (EVSL 120)  
**GLY 337. Invertebrate Paleontology (4)** Prerequisite: GLY 172 or permission of instructor  
**GLY 350. Advanced Oceanography (3)** Prerequisite: GLY 150  
**GLY 391. Appalachian Geology (1)** Prerequisite: GLY 201 and GLY 200 or 220  
**GLY 392. Coastal Plain Geology (1)** Prerequisite: GLY 201 and GLY 200 or 220  
**GLY 393. Coastal Processes (1)** Prerequisite: GLY 200 or 220  
**GLY 394. Piedmont Geology (1)** Prerequisite: GLY 201 and GLY 200 or 220  
**GLY 402. Advanced Mineralogy (3)** Prerequisite: GLY 201; corequisite MAT 112 or permission of instructor  
**GLY 420. (EVS 420) (PHY 420) Global Climate Change (3)** Prerequisites: PHY 102, CHM 102, and MAT 162  
**GLY 426. (526) Geohydrology (4)** Prerequisite: MAT 162 and either GLY 310 or 312  
**GLY 431. Stratigraphy (4)** Prerequisite: GLY 310, 312, or 337  
**GLY 440. (540) Regional Geology of North America (3)** Prerequisite: GLY 431 or 441  
**GLY 441. Structural Geology (4)** Prerequisite: GLY 200 and MAT 112 or permission of instructor  
**GLY 443. Tectonics (3)** Prerequisite: GLY 310, 431, and 441  
**GLY 450. Geological Oceanography (4)** Prerequisite: GLY 150 and 201 or 350  
**GLY 458. (558) (BIO 487/587) Introduction to Coastal Management (4)** Prerequisites: Junior standing or consent of instructors  
**GLY 465. (565). Introduction to Geophysics (3)** Prerequisite: GLY 200 or 220, MAT 112 or 115.  
**GLY 470. Field Course in Geology (6)** Prerequisite: GLY 311-312 (or GLY 310), GLY 431 and 441  
**GLY 472. (572) Introduction to Geochemistry (3)** Prerequisite: MAT 162, GLY 201 or CHM 445  
**GLY 480. Advanced Topics in Geology (1-4)** Prerequisite: Junior standing in department and consent of instructor  
**GLY 489. The Dynamic Earth (3)** Prerequisites: Senior standing with a major in GLY and completion of 15 hours in the major from courses at the 200 level and above  
**GLY 491. Directed Individual Study (1-3)** Prerequisite: Overall GPA or at least 2.00, junior or senior standing, and consent of instructor, department chair and dean  
**GLY 495. Senior Seminar (1-3)** Prerequisite: Senior standing with a major in GLY and completion of 18 hrs in the major from courses at the 200-level and above  
**GLY 499. Honors Work in Geology (2-3)** Prerequisite: Eligibility for honors program and recommendation of department chairperson