

B. S. Geology (GLY)*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/basic/basic.html>

(2) MAJOR REQUIREMENTS - GLY (Minimum 74 hours)

Check when complete:

_____ *+GLY 101	Principles of Geology (4)
_____ *GLY 171	Applied Physical Geology (4) Prerequisite or corequisite: MAT 111
_____ *+GLY 172	The Earth Through Time (4) Prerequisite: GLY 171
_____ *GLY 201	Mineralogy (4) Prerequisite: GLY 171; prerequisite or corequisite: CHM 101 (Meets Computer Competency Requirement)
_____ *GLY 311	Igneous and Metamorphic Petrology (4) Prerequisite: GLY 201
_____ *GLY 312	Sedimentary Petrology (4) Prerequisite: GLY 201; pre- or corequisite: GLY 200
_____ *GLY 337	Invertebrate Paleontology (4) Prerequisite: GLY 101 or GLY 120 and GLYL 120
_____ *GLY 431	Stratigraphy (4) Prerequisite: GLY 310, 312, or 337
_____ *GLY 441	Structural Geology (4) Prerequisite: GLY 171 and MAT 112 or 115
_____ *GLY 470	Field Course in Geology (6) Prerequisite: GLY 311-312 (or GLY 310), GLY 431 and 441 (Meets Applied Learning Requirement)
_____ 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)
_____ *+CHM 102	General Chemistry (4) Prerequisite: CHM 101
_____ +MAT 161	Calculus with Analytical Geometry (4) Prerequisite: MAT 112 or 115 or placement
_____ +MAT 162	Calculus with Analytical Geometry (4) Prerequisite: MAT 161
_____ *+PHY 101-102 or	Elementary College Physics (4-4) Corequisite: MAT 111 or
_____ *+PHY 201-202	General Physics (4-4) Corequisite: MAT 161-162
_____ GLY _____	
_____ GLY _____	Choose at least 7 hours from the following: GLY *335, 391, 392, 393, 394, 402, 420, *426, 440
_____ GLY _____	443, 465, 472, 473, 480, and 489

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

_____ *+BIO 201	Principles of Biology: Cells (4)
_____ *+BIO 202	Principles of Biology: Biodiversity (4)
_____ +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 2009-2010 catalogue or the Watson School of Education WEB site: <http://www.uncw.edu/ed>.

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/earscli/>

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. Applied 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 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 201
GLY 311. Igneous and Metamorphic Petrology (4) Prerequisite: GLY 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 171 and 201
GLY 392. Coastal Plain Geology (1) Prerequisite: GLY 171 and 201
GLY 393. Coastal Processes (1) Prerequisite: GLY 171 or 220
GLY 394. Piedmont Geology (1) Prerequisite: GLY 171 and 201
GLY 402. Advanced Mineralogy (4) 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 or consent of instructor
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 171 and MAT 112 or 115
GLY 443. (543) Tectonics (3) Prerequisite: GLY 310, 431, and 441
GLY 450. Geological Oceanography (4) Prerequisite: GLY 150 and 201 or 350
GLY 458. (558) Introduction to Coastal Management (4) Prerequisites: Junior standing or consent of instructors
GLY 465. (565) Introduction to Geophysics (3) Prerequisite: GLY 171, 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 473. Isotope Geochemistry (3) Prerequisites: Two semester of college calculus and two semesters of college chemistry
GLY 480. Advanced Topics in Geology (1-4) Prerequisite: Junior standing in department and consent of instructor
GLY 489. Contemporary Issues in Geoscience (3) Prerequisites: Senior standing with a major in GLY, GLY 130 and completion of 15 hours of courses in the major above the 199 level
- GLY 491. Directed Individual Study (1-3) Prerequisite: Overall GPA of 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 hours 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**