

**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.

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**(1) BASIC STUDIES** (45 semester hours)

See Basic Studies sheet and/or information on the WEB at <http://www.uncw.edu/uc/basicstudies.htm>

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

Check when complete:

_____ *GLY 101	Principles of Geology (4)
_____ *GLY 171	Physical Geology (4) Prerequisite or corequisite: MAT 111
_____ *+GLY 172	The Earth Through Time (4) Prerequisite: GLY 171
_____ *GLY 201	Mineralogy (4) Prerequisite: GLY 101 or GLY 120 w/ lab or GLY 171; prerequisite or corequisite: CHM 101 (Meets <b>Computer Competency Requirement</b> )
_____ *GLY 311	Igneous and Metamorphic Petrology (4) Prerequisite: GLY 200, 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 200 and MAT 112 or permission or instructor
_____ *GLY 470	Field Course in Geology (6) Prerequisite: GLY 311-312 (or GLY 310), GLY 431 and 441
_____ 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 <b>Oral Communication Competency Requirement</b> )
_____ *+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, 480, and 489

**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

<b>Requirements to declare GLY:</b> Completion of 24 hours
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For further information see the GLY WEB site: <a href="http://www.uncw.edu/earsci/">http://www.uncw.edu/earsci/</a>
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## GEOLOGY COURSES

- GLY 101. Principles of Geology (4)**  
**GLY 120. (EVS 120) Environmental Geology (3) GLYL 120. (EVS 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 (EVS 120) or GLY 171  
**GLY 200. Methods in Geology (3)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVS 120) or GLY 171  
**GLY 201. Mineralogy (4)** Prerequisite: GLY 101 or 120 (EVS 120) and GLYL 120 (EVS 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 (EVS 120) or GGY 130; and MAT 111  
**GLY 226. (GGY 235) Environmental 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 (EVS 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 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