

Geography Major – GEOLOGY EMPHASIS

		Units
___ 1) 11/12 units CORE		
___	GEOGRPY 100 Introduction to Geography	1
___	GEOLOGY 100 Principles of Geology OR	5
___	GEOLOGY 101 Elements of Geology OR	4
___	GEOGRPY 210 Physical Geography	5
___	GEOGRPY 230 Human Geography	3
___	GEOGRPY 270 Introduction to Mapping	3
___ 2) 3 units GIS		
___	GEOGRPY 370 Geographic Information Systems	3
___ 3) 14 units Geology CORE		
___	GEOLOGY 204 Earth and Life History	3
___	GEOLOGY 310 Rocks and Minerals	4
___	GEOLOGY 317 Paleontology	3
___	GEOLOGY 318 Geologic Structures and Field Methods	4
___ 4) 3 units Geological electives		
___	GEOLOGY 203 Volcanoes	3
___	GEOLOGY 300 Principles of Oceanography	3
___	GEOLOGY 301 Environmental Geology	3
___	GEOLOGY 307 Dinosaurs	3
___	GEOLOGY 319 Stratigraphy and Sedimentation	3
___	GEOLOGY 352 Geohazards	3
___	GEOLOGY 498 Independent Study in Geology	1-3
___	GEOGRPY 300 Soil Science	3
___	GEOGRPY 310 Geomorphology	3
___ 5) 3 units Advanced disciplinary course		
___	GEOLOGY 491 Travel Study	1-3
___	GEOLOGY 492 Field Studies in Geology	1-3
___	GEOLOGY 496 Special Studies	1-3
___	GEOGRPY 440 Applied GIS: Business	3
___	GEOGRPY 450 Advanced Methods Physical Geography	4
___	GEOGRPY 455 Advanced Topics in Human Geography	3
___	GEOGRPY 452 Cultural Ecology	3
___	GEOGRPY 460 Applied GIS in Physical Geography	3
___	GEOGRPY 470 Applied Environmental GIS	3
___	GEOGRPY 485 Internship in Geography	3-12
___	GEOGRPY 492 Field Course	4-6
___	GEOGRPY 499 Geography Thesis	
___ 6) 1 unit capstone course		
___	GEOGRPY 400 Capstone in Geography	1
___ 7) 3 units from writing course		
___	ENGLISH 370 Advanced Composition	3
___	ENGLISH 372 Technical & Scientific Writing	3

Other Considerations for the Geology Emphasis:

The Minor:

The College of Letters and Sciences requires that all students complete an approved minor. Approved minors consist of 21-24 units from courses that are *not* duplicated in the major. While there are over 70 minors to choose from, Geology Emphasis students are strongly encouraged to select a minor that complements the major while enhancing their prospects for future employment and/or acceptance into graduate programs. The most common minors for students in the Geology Emphasis are: Environmental Studies, Physical Science, and Biology.

GIS Certification:

The Department of Geography and Geology offers two different GIS (Geographic Information Systems) certificates – Economic Emphasis and Environmental Emphasis. Both require GEOGRPY 270 and GEOGRPY 370 (6 units total), plus 6 additional units from advanced GIS courses in either of the two emphases, for a total of 12 units total needed to receive the certificate. The GIS certificate requirements are not unique, i.e. the same courses may count for both the certificate and the major or certain minors. Note that Geology Emphasis students are already halfway towards a GIS certificate as both 270 and 370 are major requirements! Many students even find the time and room in their schedules to complete both certificates.

Undergraduate Research:

While not an explicit requirement, an experience in undergraduate research is *strongly advised* for all Geology Emphasis students, especially for those intending to go to graduate school. There are numerous field and laboratory opportunities for the eager student to assist Department faculty members within established research programs. Research often begins with volunteer effort or as part of GEOLGY 498. Funding support *may* eventually come from a variety of sources, including the UWW Undergraduate Research Program, Department of Geography and Geology, Wisconsin Space Grant Consortium and individual faculty members' grants. Travel to professional conferences to present the results of the research is both expected and supported.

Field/ Travel Study:

It has been said that "The best geologists are the ones that have seen the most rocks." Students in the Geology Emphasis should make all attempts to learn/do their science outside of the regular classroom, even though this is also not an explicit requirement. Opportunities vary from semester to semester and include everything from local day trips to longer overseas adventures. Courses such as GEOLGY 492 and GEOGRPY 492 allow the student to accumulate units for the major at the same time. Qualified students *may* receive scholarship support for their travel. Research students often travel as part of their projects.