

Department of Geosciences Major Requirements

		Geology <i>[9.5 credits in Geosciences]</i>	Environmental Geoscience <i>[8 credits in Geosciences]</i>	Earth Science <i>[8.5 credits in Geosciences]</i>
Required Geoscience Courses	Core	GEOS 110-Earth & the Environment (1) GEOS 280-Mineralogy (1) GEOS 310-Sedimentology/Stratigraphy (1) GEOS 350-Structural Geology/Tectonics (1)	GEOS 110-Earth & the Environment (1) GEOS 280-Mineralogy (1) GEOS 310-Sedimentology/Stratigraphy (1) GEOS 350-Structural Geology/Tectonics (1)	GEOS 110-Earth & the Environment (1) GEOS 280-Mineralogy (1) GEOS 310-Sedimentology/Stratigraphy (1) GEOS 350-Structural Geology/Tectonics (1)
	Other	GEOS 210-Historical Geology (1) GEOS 320-Petrology (1) GEOS 450-Senior Seminar (0.5)	GEOS 109-Environmental Geology (1) GEOS 125-Intro to Environmental Science (1)	GEOS 115-Physical Geography (1) GEOS 450-Senior Seminar (0.5)
Elective Geoscience Courses		<p>At least 3 credits from the following courses: GEOS 205-Introduction to GIS (1) GEOS 220-Geologic Field Experiences (1)# GEOS 315-Map Interpretation (1) GEOS 330-Geochemistry (1) GEOS 370-Applied Hydrogeology (1) GEOS 380-Environmental Geophysics (1)</p> <p>GEOS 470-Readings in Geology (0.25-0.5)* GEOS 480-Problems in Geology (0.25-0.5)* GEOS 490-Research Thesis (0.25-1)*</p>	<p>At least 2 credits from the following courses: GEOS 205-Introduction to GIS (1) GEOS 330-Geochemistry (1) GEOS 370-Applied Hydrogeology (1) GEOS 380-Environmental Geophysics (1)</p> <p>GEOS 470-Readings in Geology (0.25-0.5)* GEOS 480-Problems in Geology (0.25-0.5)* GEOS 490-Research Thesis (0.25-1)*</p>	<p>At least 3 credits from the following courses (at least 1 of the 3 must be at the 300 or higher level): GEOS 105-Earthquakes & Volcanoes (1) GEOS 107-Geology of America's National Parks (1) GEOS 109-Environmental Geology (1) GEOS 125-Intro to Environmental Science (1) GEOS 135-Oceanography (1) GEOS 205-Introduction to GIS (1) GEOS 210-Historical Geology (1) GEOS 220-Geologic Field Experiences (1)# GEOS 315-Map Interpretation (1) GEOS 320-Petrology (1) GEOS 330-Geochemistry (1) GEOS 370-Applied Hydrogeology (1) GEOS 380-Environmental Geophysics (1)</p> <p>GEOS 470-Readings in Geology (0.25-0.5)* GEOS 480-Problems in Geology (0.25-0.5)* GEOS 490-Research Thesis (0.25-1)*</p>
Other Required Courses		CHEM 130 & 170 (1.25)	UNIV 170-Env Science Intro Seminar (0.5) UNIV 390-TPS:Env Science Senior Seminar (0.5) At least 2 of the following area concentrations: <u>Area 1:</u> CHEM 120, 130, & 170 (2.25) <u>Area 2:</u> BIOL 135 & 145 (2) <i>Note: BIOL 342 also is highly recommended.</i> <u>Area 3:</u> ECON 100 & 294 (2) <i>Note: Econ 335 also is highly recommended.</i>	CHEM 130 & 170 (1.25) Intro Astronomy course (PHYS 100 or equiv.; 1)
Recommended Courses for All Majors		MATH 151-152 Intro Calculus sequence PHYS 120-130 Intro Physics sequence Additional GEOS, CHEM, and/or BIOL courses Winter Term internship in a geoscience-related field Summer geology field camp		CSC courses (e.g., CSC 121-122) POLS courses (e.g., POLS 110, 160, 382) ANTH 253-Environmental Anthropology (1; Group 2) Off-campus study in an approved geoscience program
<p><i>*may only be taken with permission of dept. chair; only 1 credit counts toward the major</i> #GEOS 220-Geologic Field Experiences is a topics course that can be taken multiple times.</p>				