

College of Science
Department of Geosciences
Geosciences Minor

For student date of entry under UG Catalog 2023-2024

The Department of Geosciences offers a minor for students who wish to develop a working knowledge of earth systems to complement their primary majors. In order to minor in Geosciences, a student must complete the courses below with a minimum in-minor GPA of 2.0.

Section 1. GEOS Foundation (6 to 7 credits)

GEOS 1004 Earth Science + GEOS 1104 Lab (or GEOS 2104 Elements of Geology)	AND	or	(3)_____ (1)_____	
GEOS 1014 Evolution of the Earth-Life System	OR		(3)_____	
GEOS 2024 Earth's Dynamic Systems			(6)_____	

Section 2. GEOS electives (12 credits)

GEOS 3000 or 4000 Electives (4 credit courses may also be used to meet requirements)	(3)_____	(3)_____	
	(3)_____	(3)_____	

List of 3000/4000 electives (3 credits unless noted otherwise; this list is not exhaustive):

GEOS 3014 Environmental Geosciences GEOS 3024 Computational Methods in Geos GEOS 3034 Oceanography GEOS 3044 Geosciences Outreach (2) #GEOS 3104 Elementary Geophysics GEOS 3204 Sedimentology-Stratigraphy GEOS 3304 Geomorphology GEOS 3404 Elements of Structural Geology #GEOS 3504 Mineralogy GEOS 3604 Paleontology #GEOS 3614 Soils GEOS 3634 Natural History Collections #GEOS 3644 Paleontological Lab Techniques (2) GEOS 3704 Igneous and Metamorphic Rocks #GEOS 4084 Modeling with GIS #GEOS 4124 Seismic Stratigraphy GEOS 4134 Interdisciplinary Issues/Ethics Water Res. #GEOS 4154 Earthquake Seismology	#GEOS 4164 Potential Field Methods in Exploration Geophysics (4) #GEOS 4174 Exploration Seismology (4) GEOS 4234 Vertebrate Evolution (4) GEOS 4244 Morphology of Vertebrates (4) #GEOS 4254 Integrative Earth Systems #GEOS 4264 Sedimentary Basins GEOS 4354 Intro to Remote Sensing #GEOS 4404 Advanced Structural Geology GEOS 4624 Mineral Deposits GEOS 4314 Coastal Hazards #GEOS 4634 Environmental Geochemistry GEOS 4714 Volcanoes and Volcanic Processes #GEOS 4804 Groundwater Hydrology #GEOS 4824 Engineering Geology #GEOS 4924 Tectonics (4) GEOS 4944 Study Abroad Special Topics (var. credits) GEOS 4954 Study Abroad (var. credits)
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Note: # denotes that there is/are prerequisite(s) in addition to the foundational courses listed in Section 1. If you are concerned about prerequisite requirements, please contact geosciences@vt.edu with any questions.

Total **minimum 18 credits**