

College of Science  
Department of Geosciences  
Geosciences Minor

For student date of entry under UG Catalog 2022-2023

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)	(3)____	or (3)____	(1)____
<b>AND</b>			
GEOS 1014 Evolution of the Earth-Life System	(3)____		
<b>OR</b>			
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; check timetable for additional courses):

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| GEOS 3014 Environmental Geosciences<br>GEOS 3024 Computational Methods in Geos<br>GEOS 3034 Oceanography<br>GEOS 3044 Geosciences Outreach (2)<br>#GEOS 3104 Elementary Geophysics<br>GEOS 3204 Sedimentology-Stratigraphy<br>GEOS 3304 Geomorphology<br>GEOS 3404 Elements of Structural Geology<br>#GEOS 3504 Mineralogy<br>GEOS 3604 Paleontology<br>#GEOS 3614 Soils<br>GEOS 3634 Natural History Collections<br>#GEOS 3644 Paleontological Lab Techniques (2)<br>GEOS 3704 Igneous and Metamorphic Rocks<br>GEOS 3954 Study Abroad (variable credits)<br>#GEOS 4084 Modeling with GIS<br>#GEOS 4124 Seismic Stratigraphy | GEOS 4134 Interdisciplinary Issues/Ethics Water Res.<br>#GEOS 4154 Earthquake Seismology<br>#GEOS 4164 Potential Field Methods in Exploration Geophysics (4)<br>#GEOS 4174 Exploration Seismology (4)<br>GEOS 4234 Vertebrate Evolution (4)<br>GEOS 4244 Morphology of Vertebrates (4)<br>#GEOS 4254 Integrative Earth Systems<br>#GEOS 4264 Sedimentary Basins<br>GEOS 4354 Intro to Remote Sensing<br>#GEOS 4404 Advanced Structural Geology<br>GEOS 4624 Mineral Deposits<br>GEOS 4314 Coastal Hazards<br>#GEOS 4634 Environmental Geochemistry<br>GEOS 4714 Volcanoes and Volcanic Processes<br>#GEOS 4804 Groundwater Hydrology<br>#GEOS 4824 Engineering Geology<br>#GEOS 4924 Tectonics (4) |
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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](mailto:geosciences@vt.edu) with any questions.

**Total**

**18-19 credits**