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 8 credits)**

- GEOS 1004 Earth Science + GEOS 1104 Lab  
  (or GEOS 2104 Elements of Geology) \( (3) \)  
  or \( (3) \)  
  AND \( (1) \)

- GEOS 1014 Evolution of the Earth-Life System \( (3) \)

- GEOS 2024 Earth’s Dynamic Systems \( (8) \)

**Section 2. GEOS electives (12 credits)**

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

**List of 3000/4000 electives (3 credits unless noted otherwise; check timetable for additional courses):**

- 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 3954 Study Abroad (variable credits)
- #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 4634 Environmental Geochemistry
- GEOS 4714 Volcanoes and Volcanic Processes
- #GEOS 4804 Groundwater Hydrology
- GEOS 4824 Engineering Geology
- #GEOS 4924 Tectonics (4)

**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** \( 18-20 \) credits