

New Geoscience Curriculum

Core (required of all)	Credits
GEOSCI 100 or 106: General or Environmental Geology	3
GEOSCI 202 Introduction to Geologic Structures	4
GEOSCI 204 Geologic Evolution of the Earth	4
GEOSCI 360 Principles of Mineralogy	3
GEOSCI 370 Introductory Petrology	3
Total:	17

Geology track

Required:

GEOSCI 350 Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 375 Principles of Geochemistry	3
GEOSCI 430 Sedimentology and Stratigraphy	3
GEOSCI 455 Structural Geology	4
Geoscience electives numbered 300 and above (excluding GEOSCI 331)	4
Total:	17

Geophysics and Engineering Geology track

Required:

GEOSCI 431 Sedimentology and Stratigraphy Lab	1
GEOSCI 455 Structural Geology	4
GEOSCI 474 Rock Mechanics	3
GEOSCI 594 Introduction to Applied Geophysics	3
GEOSCI 595 Field Methods in Applied and Engineering Geophysics	1
GEOSCI 627 Hydrogeology	4
Total:	16

Students choosing this emphasis may *not* take Physics 103&104, but may replace Physics 201, 207, or 247 with EMA 201&202. They must also take two additional semesters of physics and math:
 a) EMA 303 OR Physics 311 OR Physics 322
 b) Math 234 OR Math 320 OR Math 320 OR Math 340

Students who are not GLE majors may substitute GEOSCI 350 for either GEOSCI 474 or GEOSCI 627

Environmental Geoscience track

Directed Electives: take one from each category

Surface Environments	
GEOSCI 420 Glacial and Pleistocene Geology	3
GEOSCI 430 Sedimentology and Stratigraphy	3
GEOSCI 627 Hydrogeology	3-4
GEOSCI 320 Geomorphology	3
Geochemistry	
GEOSCI 375 Principles of Geochemistry	3
GEOSCI 610 Geochronology, Timescales, and Rates of Geologic Processes	3
GEOSCI 629 Contaminant Hydrogeology	3
Geobiology	
GEOSCI 304 Geobiology	3
GEOSCI 540 Invertebrate Paleontology	3
GEOSCI 541 Paleobiology	3
Earth Resources	
GEOSCI 410 Minerals as a Public Problem	3
GEOSCI 411 Energy Resources	3
GEOSCI 455 Structural Geology	4
GEOSCI 515 Principles of Economic Geology	4
GEOSCI 594 Introduction to Applied Geophysics	3
Geoscience electives numbered 300 and above (excluding GEOSCI 331)	3-5
Total:	17

General Geoscience track
Choose 17 credit hours of geoscience electives numbered 300 and above (excluding GEOSCI 331)