

DEPARTMENT OF EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES
NORTH DAKOTA STATE UNIVERSITY
PLANNER FOR COURSES IN GEOLOGY/GEOGRAPHY, 2022-2026[§]

Fall

GEOL 105 Physical Geology (3)
GEOL 105L Physical Geology Lab (1)
GEOL 201 The Geology of Climate and Energy (3)
GEOL 414 Hydrogeology
GEOL 428 Geochemistry (3)
GEOL 450 Field Geology (3)
GEOL 457 Structural Geology (4)
GEOG 161 World Regional Geography (3)
GEOG 262 Geography of North America (3)
GEOG 455 Geographic Information Systems (4)
GEOG 480 GIS Pattern Analysis and Modeling (3)

Fall

GEOL 105 Physical Geology (3)
GEOL 105L Physical Geology Lab (1)
GEOL 107L Red River Field Course (1)
GEOL 219 Oceanography (3)
GEOL 302 Black Hills Field Course (2)
GEOL 310 Planetary Geology (3)
GEOL 303 Paleontology Field Course (1)
GEOL 350 Invertebrate Paleontology (3)
GEOL 420 Mineralogy (3)
GEOL 421 Mineralogy Lab (1)
GEOG 105 Fundamentals of GIS (3)
GEOG 161 World Regional Geography (3)
GEOG 455 Geographic Information Systems (4)
GEOL 465 Remote Sensing of the Environment (3)

Fall

GEOL 105 Physical Geology (3)
GEOL 105L Physical Geology Lab (1)
GEOL 201 The Geology of Climate and Energy (3)
GEOL 414 Hydrogeology
GEOL 428 Geochemistry (3)
GEOL 450 Field Geology (3)
GEOL 457 Structural Geology (4)
GEOG 161 World Regional Geography (3)
GEOG 262 Geography of North America (3)
GEOG 455 Geographic Information Systems (4)
GEOG 480 GIS Pattern Analysis and Modeling (3)

Fall

GEOL 105 Physical Geology (3)
GEOL 105L Physical Geology Lab (1)
GEOL 107L Red River Field Course (1)
GEOL 219 Oceanography (3)
GEOL 302 North Shore Field Course (2)
GEOL 310 Planetary Geology (3)
GEOL 303 Paleontology Field Course (1)
GEOL 350 Invertebrate Paleontology (3)
GEOL 420 Mineralogy (3)
GEOL 421 Mineralogy Lab (1)
GEOG 105 Fundamentals of GIS (3)
GEOG 161 World Regional Geography (3)
GEOG 455 Geographic Information Systems (4)
GEOL 465 Remote Sensing of the Environment (3)

2022-2023

Spring

GEOL 106 The Earth Through Time (3)
GEOL 106L The Earth Through Time Lab (1)
GEOL 150 Concepts Skills and Ethics in Geosciences (2)
GEOL 410 Sedimentology and Stratigraphy (4)
GEOL 413 Glacial Geology (3)
GEOL 491 Seminar (1)
GEOL 496 Field Experience (2)
GEOG 105 Fundamentals of GIS (3)
GEOG 151 Human Geography (3)
GEOG 456 Advanced Geog. Info. Systems (3)
GEOL/GEOG 470 Remote Sensing

2023-2024

Spring

GEOL 106 The Earth Through Time (3)
GEOL 106L The Earth Through Time Lab (1)
GEOL 150 Concepts Skills and Ethics in Geosciences (2)
GEOL 300 Environmental Geology (3)
GEOL/GEOG 412 Geomorphology (3)
GEOL 422 Petrology (3)
GEOL 423 Petrography (1)
GEOL 491 Seminar (1)

2024-2025

Spring

GEOL 106 The Earth Through Time (3)
GEOL 106L The Earth Through Time Lab (1)
GEOL 150 Concepts Skills and Ethics in Geosciences (2)
GEOL 410 Sedimentology and Stratigraphy (4)
GEOL 413 Glacial Geology (3)
GEOL 491 Seminar (1)
GEOL 496 Field Experience (2)
GEOG 105 Fundamentals of GIS (3)
GEOG 151 Human Geography (3)
GEOG 456 Advanced Geog. Info. Systems (3)
GEOL/GEOG 470 Remote Sensing

2025-2026

Spring

GEOL 106 The Earth Through Time (3)
GEOL 106L The Earth Through Time Lab (1)
GEOL 150 Concepts Skills and Ethics in Geosciences (2)
GEOL 300 Environmental Geology (3)
GEOL/GEOG 412 Geomorphology (3)
GEOL 422 Petrology (3)
GEOL 423 Petrography (1)
GEOL 491 Seminar (1)

[§]Schedule subject to change. Semester hours in parentheses. Courses NOT in italics are part of Geology Major core curriculum. GEOL 491 must be taken twice for graduation. 300 and 400 level courses require GEOL 105 prereq. Majors should complete 1-yr of CHEM + Labs before enrollment in GEOL 420/421; it is recommended to take this sequence in your first year. GEOL 450 is a capstone course and requires GEOL 410, GEOL 457, GEOL 422, GEOL 423, GEOL 420, and GEOL 421 as pre- or co-requisites.