

GEOLOGY (AS)

Associate of Science

Transfer Program

Interest Areas:

Science, Tech., Engr. and Math

This program is for students interested in pursuing a baccalaureate degree in Geology. Geology is the science that deals with the history of the earth and its life, especially as recorded in rocks. Small classes, excellent laboratories, and close proximity to classical geological field environs are especially well suited to providing the lower-division requirements for geology majors. A strong background in science and mathematics is important preparation for a college geology program.

Completion of the following courses results in an associate's degree with an area of emphasis in Geology. The required coursework normally fulfills the first half of baccalaureate degree requirements in Geology. Course selection should be tailored to match requirements defined by intended transfer institutions.

Contact Information:

Natural Sciences Division

Meyer Health and Sciences Building, Room 250

Phone: (208) 769-3495

Program Website (<https://www.nic.edu/programs/geology/>)

Program Requirements

Code	Title	Credits
General Education Requirements		
GEM 1 - Written Communication		6
GEM 2 - Oral Communication		3
GEM 3 - Mathematical Ways of Knowing ¹		0
GEM 4 - Scientific Ways of Knowing ¹		0
GEM 5 - Humanistic and Artistic Ways of Knowing		6
GEM 6 - Social and Behavioral Ways of Knowing		6
GEM 7W - Wellness		1-3
Select one of the following:		3
GEM 7F - First Year Experience		
GEM 7I - Institutionally Designated		
Program Requirements		
CHEM-111	General Chemistry I	5
GEOL-101	Physical Geology	4
GEOL-255	Systematic Mineralogy	4
MATH-170	Calculus I	4
PHYS-111	General Physics I	4-5
or PHYS-211	Engineering Physics I	
Program Electives ²		14
BIOL-114	Organisms and Environments	
BIOL-115	Introduction to Life Sciences	
BTNY-203	General Botany	
CHEM-112	Principles of General College Chemistry II	

CHEM-275	Carbon Compounds
CHEM-277	Organic Chemistry I
CHEM-278	Organic Chemistry I Lab
EDUC-201	Introduction to Teaching
ENGL-202	Technical Writing
GEOG-100	Physical Geography
GEOL-102	Historical Geology
GEOL-125	Regional Geology of the Pacific Northwest
GIST-271	Introduction to Geographic Information Science and Technology Using GIS (Geographic Information Systems)
MATH-175	Analytic Geometry and Calculus II
MATH-253	Statistical Methods
MATH-275	Analytic Geometry and Calculus III
MATH-335	Linear Algebra
MATH-370	Introduction to Ordinary Differential Equations

Total Credits **60-63**

¹ This General Education Requirement is met by the Program Requirements.

² Consult with your geology faculty advisor and/or consult the college catalog of your intended transfer institution to determine transferability and required courses.

Course Key



GEM



AAS

Institutionally
Designated



Gateway



Milestone

Program Outcomes

Upon completion of the program, students will be able to:

1. Apply foundational knowledge of geologic/geographic science including plate tectonics, geologic time, and the rock cycle to analyze or predict phenomena.
2. Employ scientific methods and reasoning to critically evaluate assertions and identify Earth materials.
3. Interpret and communicate geological or geographical information via written, spoken and/or visual representations such as geologic, meteorological, and topographic maps.
4. Illustrate the interdependence between the human experience and deep time, geologic hazards, and lithospheric processes.
5. Collect, analyze and interpret geologic/geographic data to form and test a hypothesis in the laboratory, classroom, or field using discipline-specific tools and techniques.

In addition to the program outcomes, students will meet the North Idaho College General Education (GEM) Requirements.