

“W” Number: _____
 Student Name: _____
 Advisor Name: _____

Catalog: 2021-2022 University of Wyoming Catalog
Program: Geology, B.S.

Geology, B.S.

Program Objectives

The primary mission of our B.S. geology program is to provide a quality educational experience that prepares men and women to enter careers in geology and related fields. We expect that our graduates should:

- Have the basic knowledge and skills demanded for entry-level competence in typical careers in earth science.
- Be able to apply basic scientific and technical knowledge to specific tasks and problems.
- Cultivate the specific scientific and technical skills that will allow them effectively to serve their employers and to enhance their own career development.
- Develop increased capacity in the skills of independent learning, critical thinking, problem definition, and problem solving.
- Develop enhanced numerical skills and computer literacy as part of an undergraduate program designed to deliver a current and relevant knowledge of their discipline.
- Communicate effectively and professionally through oral, written, and graphical means and to participate effectively in their workplace and in individual and team-related activities.
- Have the broad general education needed to appreciate the role of Earth Sciences in the societal context and appreciate the importance of ethics in the practice of the profession.

Program Goals

The department of Geology and Geophysics has the following specific goals for its B.S. program:

- Students in the B.S. program will receive a quality preparatory education in the discipline that is current, relevant, practical, and personal.
- B.S. students who graduate with appropriate grades will be able to compete successfully for positions at graduate schools nationwide.
- B.S. students who graduate with appropriate grades will be well prepared for entry-level positions as professionals within their and other related disciplines.

Required Courses

Note: This program represents a minimum proficiency. Students are strongly advised to elect additional courses in geology.

One of the Following:

Course Name	Credits:	Term Taken	Grade	Gen Ed
GEOL1005 - Earth History	Credits: 4			
GEOL1100 - Physical Geology	Credits: 4			
• GEOL 1200 - Historical Geology Credits: 4				
GEOL1500 - Water, Dirt, and Earth's Environment	Credits: 4			

And Each of the Following:

Course Name	Credits:	Term Taken	Grade	Gen Ed
GEOL2000 - Geochemical Cycles and the Earth System	Credits: 4			
• GEOL 2005 - Introduction to Geophysics Credits: 4 OR				
GEOL3005 - Principles of Geophysics	Credits: 4			
GEOL2010 - Mineralogy	Credits: 3			
GEOL2020 - Introduction to Petrology	Credits: 2			
GEOL2100 - Stratigraphy and Sedimentation	Credits: 4			
GEOL4610 - Structural Geology and Tectonics	Credits: 4			
GEOL4717 - Field Course in Geology (to be taken in 1 of the last 2 summers on campus)	Credits: 1-8			
GEOL4820 - Capstone	Credits: 3			

Additional Geology Courses

Additional 18 credit hours in Geology courses at 2000-level and above:

Allied Math and Sciences Credits: 20 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed

CHEM1020 - General Chemistry I	Credits: 4			
OR				
CHEM1050 - Advanced General Chemistry I	Credits: 4			
CHEM1030 - General Chemistry II	Credits: 4			
OR				
CHEM1060 - Advanced General Chemistry II	Credits: 4			
OPTION A: Fundamental Math				
GEOL2120 - Quantitative GeoMethods	Credits: 3			
AND				
MATH2200 - Calculus I	Credits: 4			
OR				
OPTION B: Advanced Math				
MATH 2200 - Calculus I. Credits: 4				
AND				
MATH2205 - Calculus II	Credits: 4			
OR				
MATH2250 - Elementary Linear Algebra	Credits: 3			
OR				
GEOL4525 - Environmental Data Analysis	Credits: 4			
PHYS1110 - General Physics I	Credits: 4			
OR				
PHYS1210 - Engineering Physics I	Credits: 4			
OR				
• Eng Physics Credits: 4				
Notes:				