Morris Campus

Geology B.A.

Division of Science & Mathematics - Adm

Division of Science and Mathematics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2015
- Required credits to graduate with this degree: 120
- Required credits within the major: 60
- This program requires summer terms.
- Degree: Bachelor of Arts

Geology offers courses that satisfy a variety of requirements, as well as a curriculum leading to a bachelor of arts degree in geology.

Objectives--The geology curriculum serves those interested in a broader knowledge of their natural environment and the geological sciences as part of their liberal arts education; provides a firm foundation in geology, related sciences, and mathematics for students interested in the investigation and solution of geologic problems; prepares students for graduate study in the geosciences and related areas; provides the necessary background in earth science for those who plan to teach in this field at the secondary level; and serves those in other professional or interdisciplinary programs who need geology as a related subject.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

All students are required to complete general University and college requirements. For more information, see the general education requirements.

Program Requirements

Students are required to take 2 semester(s) of any second language.

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the major requirements if offset by an equivalent number of credits of A or B. Courses may not be taken S-N unless offered S-N only. A minimum GPA of 2.00 is required in the major to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Students intending to pursue graduate studies in the geological sciences should take CSCI 1301, GEOL 2151, MATH 1102, and PHYS 1101.

Required Courses

CHEM 1101 - General Chemistry I [SCI-L] (5.0 cr)
CHEM 1102 - General Chemistry II [SCI-L] (5.0 cr)
GEOL 1101 - Physical Geology [SCI-L] (4.0 cr)
GEOL 2101 - Mineralogy and Crystallography [SCI-L] (4.0 cr)
GEOL 2111 - Igneous and Metamorphic Petrology [SCI-L] (4.0 cr)
GEOL 2121 - Sedimentology and Stratigraphy [SCI-L] (4.0 cr)
GEOL 3101 - Structural Geology [SCI-L] (4.0 cr)
GEOL 4901 - Geology Senior Seminar (1.0 cr)
GEOL 4902 - Geology Senior Seminar Presentations (1.0 cr)
MATH 1021 - Survey of Calculus [M/SR] (4.0 cr)
or MATH 1101 - Calculus I [M/SR] (5.0 cr)
Completion of approved Geology Field Camp (6 cr)

Elective Courses

Take 10 or more credit(s) from the following:
•GEOL 2131 - Geomorphology [SCI] (4.0 cr)

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•GEOL 2141 - Glacial and Quaternary Geology [SCI] (4.0 cr)
•GEOL 2161 - GIS and Remote Sensing [SCI] (4.0 cr)
•GEOL 2311 - Forensic Geology [ENVT] (4.0 cr)
•GEOL 3001 - Global Tectonics [SCI] (4.0 cr)
•GEOL 3111 - Introduction to Paleontology [SCI-L] (4.0 cr)
•GEOL 3401 - Geophysics [SCI] (4.0 cr)
•GEOL 3501 - Hydrology [SCI] (4.0 cr)
•GEOL 4130 - Advanced Geomorphology (4.0 cr)
•GEOL 4140 - Advanced Glacial and Quaternary Geology (4.0 cr)
•GEOL 3993 - Directed Study (1.0 - 5.0 cr)
or GEOL 4993 - Directed Study (1.0 - 5.0 cr)
•Recommended for graduate studies:
•GEOL 2151 - Historical Geology: Earth History and Changing Scientific Perspectives [SCI-L] (4.0 cr)

Additional Electives

Courses must be chosen in consultation with a geology adviser.
Take 7 or more credit(s) from the following:
•BIOL 1xxx
•BIOL 2xxx
•BIOL 3xxx
•BIOL 4xxx
•CHEM 1xxx
•CHEM 2xxx
•CHEM 3xxx
•CHEM 4xxx
•CSCI 1xxx
•CSCI 2xxx
•CSCI 3xxx
•CSCI 4xxx
•MATH 1xxx
•MATH 2xxx
•MATH 3xxx
•MATH 4xxx
•NSCI 1xxx
•NSCI 2xxx
•NSCI 3xxx
•NSCI 4xxx
•PHYS 1xxx
•PHYS 2xxx
•PHYS 3xxx
•PHYS 4xxx
•STAT 1xxx
•STAT 2xxx
•STAT 3xxx
•STAT 4xxx
•ESCI 2xxx
•ESCI 3xxx

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