***Morris Campus***

# Geology Minor

*Division of Science & Mathematics - Adm*

**Division of Science and Mathematics**

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2023
- Required credits in this minor: 38

The geology curriculum serves those interested in broadening their knowledge of the natural environment and the geological sciences as part of their liberal arts education. It provides a firm foundation in geology, related sciences, and mathematics for students interested in the investigation and solution of geologic problems, provides 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)

## Minor Requirements

Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits earning a grade of A or B. Courses may not be taken S/N, unless offered S/N only. The GPA in these courses must be at least 2.00.

**Minor Required Courses**

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)
CHEM 1101 - General Chemistry I [SCI-L] (5.0 cr)
CHEM 1102 - General Chemistry II [SCI-L] (5.0 cr)
Choose one course from the following
GEOL 3011 - Earth Resources [ENVT] (4.0 cr)
*or* GEOL 3101 - Structural Geology [SCI-L] (4.0 cr)
*or* GEOL 3111 - Introduction to Paleontology [SCI-L] (4.0 cr)
*or* GEOL 3501 - Hydrology [SCI] (4.0 cr)

**Elective Courses**

Take 4 or more credit(s) from the following:
•GEOL 2131 - Geomorphology [SCI] (4.0 cr)
•GEOL 2141 - Glacial and Quaternary Geology [SCI] (4.0 cr)
•GEOL 2151 - Historical Geology: Earth History and Changing Scientific Perspectives [SCI-L] (4.0 cr)
•GEOL 2161 - GIS and Remote Sensing [SCI] (4.0 cr)
•GEOL 3001 - Global Tectonics [SCI] (4.0 cr)
•GEOL 3011 - Earth Resources [ENVT] (4.0 cr)
•GEOL 3012 - Global Change: Past and Present (4.0 cr)
•GEOL 3101 - Structural Geology [SCI-L] (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 3601 - Introduction to Geochemistry [SCI] (4.0 cr)
•GEOL 4130 - Advanced Geomorphology (4.0 cr)
•GEOL 4140 - Advanced Glacial and Quaternary Geology (4.0 cr)
•Take at most 3 credit(s) from the following:
•GEOL 1993 - Directed Study (1.0 - 5.0 cr)
•GEOL 2993 - Directed Study (1.0 - 5.0 cr)
•GEOL 3993 - Directed Study (1.0 - 5.0 cr)
•GEOL 4993 - Directed Study (1.0 - 5.0 cr)

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