



EARTH SCIENCE 2021-2022

Department of Geography

206 Morris Hall, (507) 389-2617

https://sbs.mnsu.edu/academics/earth-science/

The Earth Science program emphasizes study in Earth Systems Science - an interdisciplinary field of study that focuses on our planet's connected natural systems of the atmosphere, biosphere, cryosphere, geosphere, hydrosphere, pedosphere, and our place in the cosmos. Thus, courses in Anthropology, Astronomy, Biology, Chemistry, Geography, Geology, and Physics are included to explore the chemical, physical and biological processes operating at and near Earth's surface. Earth Science students are well prepared for the workforce or graduate study because of the interdisciplinary breadth and depth of study, through hands-on training in the field, laboratory, and classroom, and with focus on contemporary issues that impact people and the environment - like climate change, natural resource management, and natural hazards.

Admission requirements are: (1) A minimum of 32 earned semester credit hours. (2) A minimum cumulative GPA of 2.0 ("C"). Contact the department for application procedures.

EARTH SCIENCE, BS

Required for major (Core, 28 credits)

Table with 6 columns: Course ID, Course Name, Credits, Department, Course ID, Course Name, Credits. Lists required core courses like AST 101, BIOL 100, CHEM 201, GEOG 101, 217, GEOL 121, and PHYS 211.

Required Elective for Major (21 Credits)

(Choose 21 credits from the following)

Table with 6 columns: Course ID, Course Name, Credits, Department, Course ID, Course Name, Credits. Lists elective courses like ANTH 210, 331, 417, 418, AST 125, BIOL 402, 404, 410, 412, 432, GEOG 313, 315, 373, 410, 411, 412, 414, 415, and GEOL 122, 201, 302, 320W, 330, 410, 430, 449, 450, 497.

Geomorphology and Earth Surface Processes Certificate information is located on back side.

## **Geomorphology and Earth Surface Processes**

### **Certificate (18-20 credits)**

#### **Required for Certificate**

GEOG	315	Geomorphology	(3)
or			
GEOG	415	Earth Surface Processes	(4)
and			
GEOG	410	Climatic Environments	(3)
or			
GEOG	417	Quaternary Environments And Climatic Change	(4)

#### **Required Elective**

(Choose one from the following)

GEOG	411	Soils Geomorphology	(4)
GEOG	416W	Fluvial Geomorphology and Hydrology	(4)

#### **Unrestricted Electives**

(Choose at least six credits from the following):

ANTH	331	Environmental Anthropology	(3)
GEOG	411	Soils Geomorphology	(4)
GEOG	416W	Fluvial Geomorphology and Hydrology	(4)
GEOG	417	Quaternary Environments and Climatic Change	(4)
GEOG	440	(Approval Required)	(3-4)
GEOL	201	Elements of Mineralogy	(4)
GEOL	320W	Sedimentology and Stratigraphy	(4)
GEOL	410	Glacial Geology	(3)

The information listed comes from the University Catalog,  
for any discrepancies refer to the Catalog.