

## Geology

The following matrix indicates those courses deemed transferable among institutions listed across the top of the matrix. The numbers on the matrix represent the number of semester hours associated with the course at each institution and which institutions have agreed to transfer the commonly numbered course in each row.

You can view the group leaders at the bottom of the page. If you are interested in printing this page, please note that it is best to print in landscape mode.

| Prefix | Number | Gerta              | Course Title                         | BSC  | LRSC | NDSCS | WSC  | DCB | DSU  | MASU | MISU | NDSU | UND  | VCSU | SBC |
|--------|--------|--------------------|--------------------------------------|------|------|-------|------|-----|------|------|------|------|------|------|-----|
| GEOL   | 100    | ND:SCI or ND:LABSC | Earth Science with Lab               |      |      |       |      |     |      |      |      |      |      | 4    | 4   |
| GEOL   | 101    | ND:SCI or ND:LABSC | Environmental Geology with Lab       |      |      | 3/1*  |      |     |      |      | 4    |      |      |      |     |
| GEOL   | 102    | ND:LABSC           | Historical Geology                   | 3    |      |       |      |     |      |      |      |      |      |      |     |
| GEOL   | 102L   | ND:LABSC           | Historical Geology Lab               | 1    |      |       |      |     |      |      |      |      |      |      |     |
| GEOL   | 103    | ND:SCI             | Introduction to Environmental Issues |      |      |       |      |     |      |      |      |      | 3    |      |     |
| GEOL   | 105    | ND:SCI or ND:LABSC | Physical Geology with Lab            | 3/1* |      |       | 3/1* | 4   | 3    | 4    | 4    | 3    | 3    |      | 4   |
| GEOL   | 106    | ND:SCI or ND:LABSC | The Earth Through Time with Lab      |      |      |       |      |     | 3/1* |      | 4    | 3/1* | 3/1* | 4    |     |

### GEOL 100 Earth Science with Lab

A lecture and laboratory course which surveys topics in geology, oceanography, meteorology, and astronomy.

\*Becomes an ND:LABSC if lab is taken with the lecture.

### GEOL 101 Environmental Geology with Lab

A lecture and laboratory course which provides an introduction to geology emphasizing man's interaction with the Earth and major environmental problems facing mankind today.

\*Becomes an ND:LABSC if lab is taken with the lecture.

### **GEOL 102 Historical Geology**

Three hours of lecture and recitation per week. A study of the deposits laid down during the past geological ages and their fossil contents. Prerequisite: GEOL 101/101L. Concurrent registration in GEOL 102L is required.

### **GEOL 102L Historical Geology Lab**

Two hours of lab per week. Laboratory exercises investigate the evolution of the Earth's crust through geologic time. Topics include: plate tectonics, statistical analysis of sediments, strata chronology and the influence of structural forces, relative and radiometric dating, sorting and correlation techniques, geomagnetism, geologic implications in the fossil record, and others. Concurrent registration with GEOL 102 is required. Prerequisites: GEOL 105 & 105L.

### **GEOL 103 Introduction to Environmental Issues**

A survey of environmental issues concerning society's interaction with Earth' natural systems and exploitation of Earth's resources.

### **GEOL 105 Physical Geology with Lab**

A lecture and laboratory study of the Earth as a physical body; its structure, composition, and the geologic processes acting on and within the Earth.

\*Becomes an ND:LABSC if lab is taken with the lecture.

### **GEOL 106 The Earth Through Time with Lab**

A lecture and laboratory course which provides an introduction to the Earth through time; its origin, history, and the history and evolution of animal and plant life.

\*Becomes an ND:LABSC if lab is taken with lecture.

### **Astronomy**

| <b>Prefix</b> | <b>Number</b> | <b>Gerta</b>       | <b>Course Title</b>    | <b>BSC</b> | <b>WSC</b> | <b>DSU</b> | <b>MASU</b> | <b>UND</b> |
|---------------|---------------|--------------------|------------------------|------------|------------|------------|-------------|------------|
| ASTR          | 110           | ND:SCI or ND:LABSC | Introductory Astronomy |            |            | 3/1*       |             |            |
| ASTR          | 150/150L      | ND:SCI or ND:LABSC | Meteorology            | 3/1*       |            |            | 4           |            |
| ATSC          | 110           | ND:SCI or ND:LABSC | Meteorology (w/lab)    |            | 3/1*       |            |             | 4          |

### **ASTR 110 Introductory Astronomy**

This is an introductory astronomy class intended to give the student an appreciation of the universe in which we live. Topics covered will include: ancient astronomy and the Copernican Revolution, astronomical measurements and instruments, the solar system, stars and stellar evolution, galaxies, black holes, and cosmology. Prerequisites: None.

\*Becomes an ND:LABSC if lab is taken with the lecture.

### **ASTR 150/150L Meteorology**

An introduction to the atmosphere, including fronts and air masses, clouds and precipitation, our seasons, and global climate. Basic atmospheric processes and phenomena are studied to provide the student an understanding of our ever changing and sometimes dangerous day-to-day weather. Emphasis is placed on central North America.

\*Becomes an ND:LABSC if lab is taken with lecture.

### **ATSC 110 Meteorology (w/lab)**

Elements of the atmosphere with emphasis on those processes that affect the global atmospheric circulation.

\*Becomes an ND:LABSC if lab is taken with lecture.

The following individuals are leaders for this discipline. Those marked with an asterisk (\*) are chairs.

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