

## Geology Pre-Major Program

The Geology Pre-Major program lays the foundation for students transferring to colleges and universities to obtain a Bachelor's degree in geology. Geology is the study of the Earth and the evolution of Earth and life through geologic time. This is achieved by rigorous study of the rock and fossil record. In addition to geologic principles, this multidisciplinary field requires an understanding of biology, chemistry, physics and math. Students who declare the Geology Pre-Major are on track to graduate with an Associate of Science degree from GRCC and transfer to a 4-year institution to complete a Bachelor's degree in geological sciences. Environmental consulting agencies, natural resource companies, non-profits, and government agencies all employ geologists with a 4-year degree. A Master's degree will further widen the job market for geology majors.

### Semester 1 (15 credits)

- CHM 130 General Chemistry I (4)
- CHM 131 General Chemistry I Lab (1)
- GL 101 Introduction to Geology (4)
- PS 110 American Government (3)
- General Elective (min. 3)\*

### Semester 2 (17 credits)

- CHM 140 General Chemistry II (4)
- CHM 141 General Chemistry II Lab (1)
- GL 104 Historical Geology (4)
- MA 133 Calculus with Analytical Geometry or MA 134 Calculus with Analytical Geometry (5)\*\*
- General Elective (min. 3)\*

### Semester 3 (16-17 Credits)

- PH 125 College Physics I (4) or PH 245 Calculus Physics I (5)\*\*\*
- EN 101 English Composition-1 (3)
- Social Sciences Elective (min. 3) from discipline other than PS
- Humanities Elective (min. 3)

- General Elective (min. 3)\*

### Semester 4 (14-15 credits)

- PH 126 College Physics I (4) or PH 246 Calculus Physics II (5)\*\*\*
- EN 102 English Composition-2 (3)
- Humanities Elective (min. 3), Different discipline than Semester 3
- Wellness Elective (min. 1)
- General Elective (min. 3)\*

Total credit hours: 62

\* Only 3 general elective courses are needed if taking PH 245 and 246 sequence. Check elective requirements at your transfer institution.

\*\* Students transferring to CMU or EMU should take MA 133. Students transferring to GVSU or WMU may take either MA 133 or MA 134.

\*\*\* Students transferring to CMU should take PH 245 and PH 246. Students transferring to EMU, GVSU or WMU may take either Physics sequence.

Note: This is a sample schedule only, some courses can be moved to different semesters.