

**2003-05 Catalog Paradigm
Geology**

First Year	
1.	GL105 or 107 or 120 (GS4)
2.	MT131 (GS8)
3.	General Education
4.	General Education
5.	General Education
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

Second Year	
1.	CH105 (1 st semester)
2.	CH107 (2 nd semester)
3.	GL225
4.	GL300
5.	General Education
6.	General Education
7.	General Education
8.	Elective/Minor

Third Year	
1.	PY111 or 121 (1 st semester)
2.	PY112 or 122 (2 nd semester)
3.	GL320
4.	GL Elective
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	GL322
2.	GL325
3.	GL450
4.	GL Elective
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Elective/Minor courses can be used to take additional major courses, free electives, or to fulfill a minor.

Progress Sheet

Geology

Student Name: _____ Student ID: _____	
General Education – Lower Biennium	Major
<input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS2 – Philosophy of Human Nature _____ <input type="checkbox"/> GS3 – Human Relationships _____ <input type="checkbox"/> GS4 – Natural Science _____ <input type="checkbox"/> GS5 – Creative Expression _____ <input type="checkbox"/> GS6 – United States Heritage _____ <input type="checkbox"/> GS7 – Foreign Heritages _____ <input type="checkbox"/> GS8 – Quantitative Skills _____ <input type="checkbox"/> GS9 – Writing _____	<p>Required Courses:</p> <input type="checkbox"/> GL105 – Geology or GL107 – Environmental Geology or GL120 – Geology of Wisconsin <input type="checkbox"/> GL225 – Hydrogeology <input type="checkbox"/> GL300 – Mineralogy <input type="checkbox"/> GL320 – Petrology <input type="checkbox"/> GL322 – Sedimentology and Stratigraphy <input type="checkbox"/> GL325 – Structural Geology <input type="checkbox"/> GL450 – Geology Field Camp <input type="checkbox"/> CH105 – General Chemistry I <input type="checkbox"/> CH107 – General Chemistry II <input type="checkbox"/> PY111 – Fundamentals of Physics I or PY121 – General Physics I <input type="checkbox"/> PY112 – Fundamentals of Physics II or PY122 – General Physics II <input type="checkbox"/> MT131 – Calculus and Analytic Geometry I <p>2 from the following:</p> <input type="checkbox"/> GL120, GL240, GL250, GL307, GL330, GL350, GL354, GL428, GL495, GL499, BL130, BL450 (only one may be at the 100 level). <input type="checkbox"/> All Geology majors are required to attend a summer geology field camp usually taken between the junior and senior years
General Education – Upper Biennium	
<input type="checkbox"/> GS1 – Religious Studies _____ <input type="checkbox"/> GS10 – Western Tradition _____ <input type="checkbox"/> GS11 – Global Society _____ <input type="checkbox"/> GS12 – Senior Colloquium (GS400) _____	<p>Note - Senior Thesis (GL499) and a second semester of calculus and analytic geometry (MT132) are strongly recommended for those students who plan to attend graduate school.</p>

Geology (GEOL)

Geology integrates the disciplines of biology, chemistry, physics, and mathematics in the study of Earth processes and history. The geology paradigm emphasizes knowledge of fundamental skills such as rock and mineral identification, recognition of geologic structures, and basic geologic mapping. In addition, students are encouraged to learn and apply the Scientific Method. This approach allows for the greatest flexibility in solving geologic problems. In accordance with the Mission of St. Norbert College, the faculty strive to make the major intellectually demanding and personally rewarding while challenging students to consider moral and ethical issues regarding human-induced changes of the Earth and use of its natural resources. The geology major prepares students to directly enter the work force as entry-level geologists or to pursue advanced study and research at the graduate level. Geologists typically find employment in state and federal geological surveys or regulatory agencies, in educational institutions, or in private business firms such as environmental consulting firms.

Graduate Advisors: Dr. Tim Flood and Dr. Nelson Ham

Major (14 courses): The geology major consists of 14 courses which include two electives. The major is based on a foundation of courses in the traditional natural sciences. All students must take courses in chemistry, physics, and mathematics. The required courses in geology provide an overview of the basic fields of study in geology such as mineralogy, petrology, structural geology, hydrogeology, and surficial processes. All geology courses include a laboratory component. In addition, all geology majors are required to attend a summer geology field camp (typically 6 to 8 weeks long), usually taken between the junior and senior years of undergraduate study. The performance of all geology majors at field camp and those majors who complete a senior thesis is used to assess the overall success of the discipline and its graduates.

1. Required courses in Geology: GEOL 105 or 107 or 120, GEOL 225, GEOL 300, GEOL 320, GEOL 322, GEOL 325, and GEOL 450.

2. Required courses in Chemistry, Physics, and Mathematics: CHEM 105 and CHEM 107, PHYS 111 and PHYS 112 OR PHYS 121 and PHYS 122, MATH 131.

3. Required electives (two courses from the following list; only one course may be at the 100 level): GEOL 120, GEOL 240, GEOL 250, GEOL 307, GEOL 330, GEOL 350, GEOL 354, GEOL 428, GEOL 495, GEOL 499, BIOL 130 (Age of Dinosaurs – summer only), BIOL 450 (Paleobiology). Senior Thesis (GEOL 499) and a second semester of calculus and analytic geometry (MATH 132) are strongly recommended for those students who plan to attend graduate school.

Academic Minor (6 courses): Students may receive an academic minor in geology by successfully completing six courses approved by the geology discipline. Only one course at the 100 level may count toward the minor.