2005-07 Catalog Paradigm
Geology

First Year	
1.	GEOL 105 or GEOL 107 or GEOL 120 (GS4)
2.	MATH 131 (GS8)
3.	General Education
4.	General Education
5.	General Education
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

Second Year	
1.	CHEM 105 (1st semester)
2.	CHEM 107 (2nd semester)
3.	GEOL 225
4.	GEOL 300
5.	General Education
6.	General Education
7.	General Education
8.	Elective/Minor

Third Year	
1.	PHYS 111 or 121 (1st semester)
2.	PHYS 112 or 122 (2nd semester)
3.	GEOL 320
4.	GEOL Elective
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	GEOL 322
2.	GEOL 325
3.	GEOL 450
4.	GEOL 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.

August, 2005

Progress Sheet
Geology

Student Name: Student ID:	
General Education – Lower Biennium	**Major**
☐ **GS1** – Religious Studies _____ ☐ **GS2** – Philosophy of Human Nature _____ ☐ **GS3** – Human Relationships _____ ☐ **GS4** – Natural Science _____ ☐ **GS5** – Creative Expression _____ ☐ **GS6** – United States Heritage _____ ☐ **GS7** – Foreign Heritages _____ ☐ **GS8** – Quantitative Skills _____ ☐ **GS9** – Writing _____	**Required Courses:** ☐ GEOL 105 – Geology **or** GEOL 107 – Environmental Geology **or** GEOL 120 – Geology of Wisconsin ☐ GEOL 225 – Hydrogeology ☐ GEOL 300 – Mineralogy ☐ GEOL 320 – Petrology ☐ GEOL 322 – Sedimentology and Stratigraphy ☐ GEOL 325 – Structural Geology ☐ GEOL 450 – Geology Field Camp ☐ CHEM 105 – General Chemistry I ☐ CHEM 107 – General Chemistry II ☐ PHYS 111 – Fundamentals of Physics I or PHYS 121 – General Physics I ☐ PHYS 112 – Fundamentals of Physics II or PHYS 122 – General Physics II ☐ MATH 131 – Calculus and Analytic Geometry I **2 from the following:** ☐ GEOL 120, GEOL 240, GEOL 250, GEOL 307, GEOL 330, GEOL 350, GEOL 354, GEOL 428, GEOL 495, GEOL 496, BIOL 130, BIOL 450 (only one may be at the 100 level). ☐ All Geology majors are required to attend a summer geology field camp usually taken between the junior and senior years
General Education – Upper Biennium	
☐ **GS1** – Religious Studies _____ ☐ **GS10** – Western Tradition _____ ☐ **GS11** – Global Society _____ ☐ **GS12** – Senior Colloquium (GENS 400) _____	Note **- Senior Thesis** (GEOL 496) and a second semester of calculus and analytic geometry (MATH 132) are strongly recommended for those students who plan to attend graduate school.

August, 2005

College Catalog
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 such as environmental consulting firms.

Graduate Advisors: Dr. Tim Flood, Dr. Nelson Ham, and Dr. Elizabeth Gordon

2005-07 Catalog
Geology Requirements

Geology 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 492, GEOL 496, BIOL 450 (Paleobiology).

Senior Thesis (GEOL 496) and a second semester of calculus and analytic geometry (MATH 132) are strongly recommended for those students who plan to attend graduate school.

Geology 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.