

**2005-07 Catalog Paradigm
Biology (Organismal Biology Concentration)**

First Year	
1.	BIOL 120 (GS4) (1 st semester)
2.	BIOL 121 (2 nd semester)
3.	CHEM 105 (1 st semester)
4.	CHEM 107 (2 nd semester)
5.	MATH 131 (GS8) (or MATH 124)
6.	General Education
7.	General Education
8.	General Education

Second Year	
1.	BIOL 201 or BIOL 228
2.	BIOL 244
3.	CHEM 216 or CHEM 220
4.	BIOL Elective
5.	General Education
6.	General Education
7.	General Education
8.	Elective/Minor

Third Year	
1.	BIOL 201 or BIOL 228
2.	BIOL Elective
3.	BIOL Elective
4.	General Education
5.	General Education
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	BIOL Elective
2.	BIOL Elective
3.	General Education
4.	General Education
5.	Elective/Minor
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

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

PHYS 111, PHYS 112 and SCS 224 are strongly recommended.

Progress Sheet

Biology (Organismal Biology Concentration)

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> <p>Core</p> <input type="checkbox"/> BIOL 120 – General Biology I <input type="checkbox"/> BIOL 121 – General Biology II <input type="checkbox"/> BIOL 244 – Genetics <input type="checkbox"/> CHEM 105 – General Chemistry I <input type="checkbox"/> CHEM 107 – General Chemistry II <p>Additional Requirements:</p> <input type="checkbox"/> BIOL 201 – Botany <input type="checkbox"/> BIOL 228 – Ecology <input type="checkbox"/> CHEM 216 - Organic Chemistry OR CHEM 220 – Organic Chemistry I <input type="checkbox"/> BIOL Elective 200 or above _____ <input type="checkbox"/> BIOL Elective 200 or above _____ <input type="checkbox"/> BIOL Elective 200 or above _____ <input type="checkbox"/> BIOL Elective 200 or above _____ <input type="checkbox"/> BIOL Elective 200 or above _____ <p>PHYS 111, PHYS 112 and SSCI 224 are strongly recommended.</p> <p>Advanced students are strongly encouraged to pursue Independent Study (BIOL 495) or Research (BIOL 499).</p>
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 (GENS 400) _____	<p>Note – Biology majors are required to complete the MFAT during specified testing periods after completing BIOL 121 and again during the second semester of their senior year. The Biology major should select an advisor from the Biology faculty no later than their sophomore year to assure appropriate course selection.</p>

**2005-07 Catalog Paradigm
Biology (Biomedical Sciences Concentration)**

First Year	
1.	BIOL 120 (GS4) (1 st semester)
2.	BIOL 121 (2 nd semester)
3.	CHEM 105 (1 st semester)
4.	CHEM 107 (2 nd semester)
5.	MATH 131 (GS8)
6.	General Education
7.	General Education
8.	General Education

Second Year	
1.	BIOL 244 (2 nd Semester)
2.	CHEM 211 (2 nd Semester)
3.	CHEM 220 (1 st semester)
4.	CHEM 222 (2 nd Semester)
5.	General Education
6.	General Education
7.	General Education
8.	Elective/Minor

Third Year	
1.	CHEM 350
2.	BIOL Elective
3.	BIOL Elective
4.	BIOL Elective
5.	General Education
6.	General Education
7.	Elective/Minor
8.	Elective/Minor

Fourth Year	
1.	BIOL Elective
2.	BIOL Elective
3.	BIOL Elective
4.	General Education
5.	General Education
6.	Elective/Minor
7.	Elective/Minor
8.	Elective/Minor

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

PHYS 121, 122 and SSCI 224 are strongly recommended.

Progress Sheet

Biology (Biomedical Sciences Concentration)

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> <p>Core</p> <input type="checkbox"/> BIOL 120 – General Biology I <input type="checkbox"/> BIOL 121 – General Biology II <input type="checkbox"/> BIOL 244 – Genetics <input type="checkbox"/> CHEM 105 – General Chemistry I <input type="checkbox"/> CHEM 107 – General Chemistry II <p>Additional Requirements: Any 6 of the following BIOL 220, BIOL 320, BIOL 350, BIOL 350, BIOL 360, BIOL 365, BIOL 368, BIOL 371, BIOL 372, BIOL 373, BIOL3 81, BIOL 385, BIOL 450, or BIOL 495</p> <input type="checkbox"/> BIOL Elective _____ <input type="checkbox"/> BIOL Elective _____ <input type="checkbox"/> BIOL Elective _____ <input type="checkbox"/> BIOL Elective _____ <input type="checkbox"/> BIOL Elective _____ <input type="checkbox"/> BIOL Elective _____ <p>Additional Requirements – A Chemistry Minor</p> <input type="checkbox"/> CHEM 211 – Quantitative Analysis <input type="checkbox"/> CHEM 220 – Organic Chemistry I <input type="checkbox"/> CHEM 222 – Organic Chemistry II <input type="checkbox"/> CHEM 350 - Biochemistry <p>PHYS 121, PHYS 122, and SSCI 224 are strongly recommended.</p> <p>Advanced students are strongly encouraged to pursue Independent Study (BIOL 495) or Research (BIOL 499).</p>
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 (GENS 400) _____ _____	<p>Note - Biology majors are required to complete the MFAT during specified testing periods after completing BIOL 121 and again during the second semester of their senior year. The Biology major should select an advisor from the Biology faculty no later than their sophomore year to assure appropriate course selection.</p>

College Catalog Biology (BIOL)

The Biology Discipline at St. Norbert College strives to provide a modern, rigorous, broad-based, laboratory-intensive education that is intellectually challenging. We expect this educational experience to motivate our students toward excellence and prepare them for professional as well as academic careers, such as medicine, dentistry, other health based professions, veterinary medicine, graduate school and other future endeavors involving a knowledge of Biology. We serve the General Education curriculum by providing non-science students an environment for scientific inquiry and opportunities to explore the diversity and functioning of the natural world and our place in it. Central to our mission is a commitment to engaging our majors in the actual process of science, by encouraging them to participate in collaborative research with faculty. This not only personalizes the undergraduate learning and teaching experience through close mentoring, but also nurtures and maintains the excitement and enthusiasm that faculty and students have for their discipline. We see the integration of research and learning through such collaborative activities as a logical extension of the undergraduate classroom, and an integral part of our academic culture.

Graduate School Advisor: All full-time members of the biology discipline are qualified to provide assistance to students interested in pursuing a graduate degree.

2005-07 Catalog Biology Requirements

Biology Major (12 courses): BIOL 120 (General Biology I), 121 (General Biology II), and 244 (Genetics), General Chemistry (CHEM 105 and 107) **plus a concentration from below:**

Organismal Biology Concentration: BIOL 201, 228, CHEM 220 or CHEM 216, plus five electives in Biology numbered 200 or above. Physics (PHYS 111 and 112, or 121 and 122), Basic Statistics (SSCI 224 or BUAD 284), a computer science course, and Calculus (MATH 124 or 131) are highly recommended.

Biomedical Sciences Concentration: CHEM 211, 220, 222, and 350, plus any six BIOL electives from BIOL 220, 320, 350, 360, 365, 368, 371, 372, 381, 382, and 495. Physics (PHYS 121 and 122), Basic Statistics (SSCI 224 or BUAD 284) a computer science course, and Calculus (MATH 124 or 131) are highly recommended.

Biology majors are also required to complete the Major Field Achievement Test in Biology during specified testing periods once after completing BIOL 121 and again during the second semester of their senior year.

Course choices should be made through advisement, with the student's interests and objectives in mind. Advanced students are strongly encouraged to pursue Independent Study (BIOL 428 or 490) and Research (BIOL 492 or 496).

Biology Minor (6 courses): BIOL 120 (General Biology I) and BIOL 121 (General Biology II) plus four electives numbered 200 or above.

Biology Teaching Minor (6 courses): BIOL 120 (General Biology I) and BIOL 121 (General Biology II), an environmental course (ENVS 300 or NSCI301 fulfills the conservation requirement for the State Department of Public Instruction) and three electives numbered 200 or above.