

**2003 -05 Catalog Paradigm  
Biology**

<b>First Year</b>	
1.	BL120 (GS4) (1 <sup>st</sup> semester)
2.	BL121 (2 <sup>nd</sup> semester)
3.	CH105 (1 <sup>st</sup> semester)
4.	CH107 (2 <sup>nd</sup> semester)
5.	MT131 (GS8) (or MT124, MT114)*
6.	General Education
7.	General Education
8.	General Education

<b>Second Year</b>	
1.	BL201 or BL228
2.	BL244
3.	CH216 or CH222
4.	BL Elective
5.	General Education
6.	General Education
7.	General Education
8.	General Education

<b>Third Year</b>	
1.	BL228 or BL201
2.	BL Elective
3.	BL Elective
4.	PY121 or PY111 (1 <sup>st</sup> semester)
5.	PY122 or PY112 (2 <sup>nd</sup> semester)
6.	General Education
7.	General Education
8.	Elective/Minor

<b>Fourth Year</b>	
1.	BL Elective
2.	BL Elective
3.	BL Elective
4.	BL 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.

\* - MT131/MT124 are strongly recommended.

## Progress Sheet Biology

Student Name: _____  Student ID: _____	
<b>General Education – Lower Biennium</b>	<b>Major</b>
<input type="checkbox"/> <b>GS1</b> – Religious Studies _____ <input type="checkbox"/> <b>GS2</b> – Philosophy of Human Nature _____ <input type="checkbox"/> <b>GS3</b> – Human Relationships _____ <input type="checkbox"/> <b>GS4</b> – Natural Science _____ <input type="checkbox"/> <b>GS5</b> – Creative Expression _____ <input type="checkbox"/> <b>GS6</b> – United States Heritage _____ <input type="checkbox"/> <b>GS7</b> – Foreign Heritages _____ <input type="checkbox"/> <b>GS8</b> – Quantitative Skills _____ <input type="checkbox"/> <b>GS9</b> – Writing _____	<p><b>Required Courses:</b></p> <input type="checkbox"/> BL120 – General Biology I <input type="checkbox"/> BL121 – General Biology II <input type="checkbox"/> BL201 – Botany <input type="checkbox"/> BL228 – Ecology <input type="checkbox"/> BL244 – Genetics <input type="checkbox"/> CH105 – General Chemistry I <input type="checkbox"/> CH107 – General Chemistry II <input type="checkbox"/> CH216 OR 222 (CH220 – Organic Chemistry I is prerequisite for CH222) – Organic Chemistry, Organic Chemistry II <input type="checkbox"/> BL Elective 200 or above* _____ <input type="checkbox"/> BL Elective 200 or above* _____ <input type="checkbox"/> BL Elective 200 or above* _____ <input type="checkbox"/> BL Elective 200 or above* _____
	<p>* Within the Biology curriculum, specialty areas are designated as follows:</p> <ol style="list-style-type: none"> <li>1. Environmental - BL 228, 338, 380, 428.</li> <li>2. Morphological - BL 201, 220, 320, 374, 381.</li> <li>3. Physiological - BL 371, 372, 375.</li> <li>4. Taxonomic - BL 225, 355, 368, 376.</li> <li>5. Genetic - BL 244, 373, 420.</li> <li>6. Microbiological - BL 350, 360, 365.</li> </ol> <p>It is recommended that the student choose electives from as many areas as possible to develop a breadth of biological knowledge. 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 499).</p>
<b>General Education – Upper Biennium</b>	
<input type="checkbox"/> <b>GS1</b> – Religious Studies _____ <input type="checkbox"/> <b>GS10</b> – Western Tradition _____ <input type="checkbox"/> <b>GS11</b> – Global Society _____ <input type="checkbox"/> <b>GS12</b> – Senior Colloquium (GS400) _____	<p>Note – The biology faculty strongly recommends Physics (PY111 and 112 – non premed – or PY121 and 122 – premed), Statistics (DS224 or BA284), a Computer Science course, and Calculus (MT124 or 131).</p> <p>Biology majors are required to complete the MFAT during specified testing periods after completing BL121 and again during the second semester of their senior year.</p> <p>The Biology major should select an advisor from the Biology faculty no later than their sophomore year to assure appropriate course selection.</p>

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## Biology (BIOL)

The biology program has five objectives: (1) to provide liberal arts students with the opportunity to use scientific methods and to appreciate the contributions of science and scientists to humanity's present and future welfare; (2) to prepare students for positions in graduate school, government service, and industry; (3) to prepare students for professional training in medicine, dentistry, medical technology, veterinary medicine, and other biologically oriented disciplines; (4) to provide content courses for prospective elementary and secondary school teachers; and (5) to provide an environment for scientific inquiry.

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

**Biology Major (12 courses):** BIOL 120 (General Biology I), 121 (General Biology II), 201 (Botany), 228 (Ecology), and 244 (Genetics), constitute the required core in Biology; four electives in Biology numbered 200 or above are required to complete the major. Required cognate courses for the Biology major include: General Chemistry (CHEM 105 and 107) and one course in Organic Chemistry (CHEM 216 or 222). Physics (PHYS 121 and 122), Basic Statistics (DS 224 or BA 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.

Within the Biology curriculum, specialty areas are designated as follows:

1. Environmental - BIOL 228, 338, 380, 428.
2. Morphological - BIOL 201, 220, 320, 374, 381.
3. Physiological - BIOL 371, 372, 375.
4. Taxonomic - BIOL 225, 355, 368, 376.
5. Genetic - BIOL 244, 373, 420.
6. Microbiological - BIOL 350, 360, 365.

It is recommended that the student choose electives from as many areas as possible to develop a breadth of biological knowledge. 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 499).

**Biology Academic 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.