

3+2 BACHELOR OF SCIENCE / MASTER OF SCIENCE in BIOLOGY: General Option and Thesis Tract

Concepts in Biology 1 (BIOLOGY 114) and *Concepts in Biology 2* (BIOLOGY 115) should be taken during the freshman year; *Microbiology* (BIOLOGY 242) and *Cell Biology* (BIOLOGY 271) should be taken during the sophomore year. Students must complete ≥ 90 credit hours and maintain a ≥ 3.0 GPA in order to enroll in graduate courses in their 4th year. In addition to the specified courses listed on this page, the student selects 21 credit hours of approved graduate elective courses in biology and marine science.

Chemistry and mathematics courses should be scheduled as early as possible in the program of study. *Basic Statistics* (PSYCH 160) may be substituted for *Introduction to Statistics* (MATH 141).

<p>Biology Core Requirements (29 cr hrs) <input type="checkbox"/></p> <p>BIOLOGY 114 Concepts in Biology 1 4 <input type="checkbox"/></p> <p>BIOLOGY 115 Concepts in Biology 2 4 <input type="checkbox"/></p> <p>BIOLOGY 242 Microbiology 4 <input type="checkbox"/></p> <p>BIOLOGY 271 Cell Biology 4 <input type="checkbox"/></p> <p>BIOLOGY 332 Genetics 3 <input type="checkbox"/></p> <p>BIOLOGY 351 Ecology 4 <input type="checkbox"/></p> <p>BIOLOGY 593 Master of Science Thesis 6 <input type="checkbox"/></p>	<p>Chemistry Requirement (16/20 cr hrs) <input type="checkbox"/></p> <p>CHEM 115 Chem for the Sciences 1 4 <input type="checkbox"/></p> <p>CHEM 116 Chem for the Sciences 2 4 <input type="checkbox"/></p> <p>CHEM 230 Fund of Org Chem 4 <input type="checkbox"/></p> <p style="text-align: center;">OR</p> <p>CHEM 231 Organic Chemistry 1* AND 4 <input type="checkbox"/></p> <p>CHEM 232 Organic Chemistry 2* 4 <input type="checkbox"/></p> <p>CHEM 341 Biochemistry 1 4 <input type="checkbox"/></p>
<p>Physiology Requirement <input type="checkbox"/></p> <p>(4 cr hrs; select BIOLOGY 479 AND one lecture course from among BIOLOGY 472, 474, 477, 478, and 480)</p> <p>BIOLOGY 479 Integrated Physiology Lab. 1 <input type="checkbox"/></p> <p style="text-align: center;">AND one of the following:</p> <p>BIOLOGY 472 Animal Cell Physiology 3 <input type="checkbox"/></p> <p>BIOLOGY 474 Human Physiology 3 <input type="checkbox"/></p> <p>BIOLOGY 477 Plant Physiology 3 <input type="checkbox"/></p> <p>BIOLOGY 480 Comparative Animal Physiol. 3 <input type="checkbox"/></p>	<p>Physics Requirement <input type="checkbox"/></p> <p>(8 cr hrs; select one pair)</p> <p>PHYSICS 111 Introductory Physics 1 AND 4 <input type="checkbox"/></p> <p>PHYSICS 112 Introductory Physics 2 4 <input type="checkbox"/></p> <p style="text-align: center;">OR</p> <p>PHYSICS 211 General Physics 1 AND 4 <input type="checkbox"/></p> <p>PHYSICS 212 General Physics 2 4 <input type="checkbox"/></p>
<p>Biology Elective Requirement <input type="checkbox"/></p> <p>(21 cr hrs of biology and/or marine science graduate electives selected from the lists on p. 2. Enter them below.)</p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p> <p>_____ 3 <input type="checkbox"/></p>	<p>Mathematics Requirement <input type="checkbox"/></p> <p>(9 cr hrs)</p> <p>MATH 141 Introduction to Statistics 3 <input type="checkbox"/></p> <p>MATH 546 Biostatistics 3 <input type="checkbox"/></p> <p style="text-align: center;">AND</p> <p>MATH 123 Essentials of Calculus 3 <input type="checkbox"/></p> <p style="text-align: center;">OR</p> <p>MATH 125 Calculus 1 3 <input type="checkbox"/></p>