# Biology, Ecology & Evolution Concentration (M.S.)

## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>BIOL 570</td>
<td>Ecology</td>
<td>3</td>
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<tr>
<td>BIOL 580</td>
<td>Evolutionary Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 592</td>
<td>Graduate Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 571</td>
<td>Physiological Plant Ecology</td>
<td>3-4</td>
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<tr>
<td>or BIOL 579</td>
<td>Physiological Ecology of Animals</td>
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<tr>
<td>Select one of the following:</td>
<td>3-4</td>
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<tr>
<td>AQUA 551</td>
<td>Advanced Aquatic Biological Processes</td>
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<tr>
<td>BIOL 572</td>
<td>Wetland Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 573</td>
<td>Shoreline Ecology</td>
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<tr>
<td><strong>Electives</strong></td>
<td>10-14</td>
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<tr>
<td>Select 10-14 credits from the following:</td>
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<tr>
<td>BIMS 564</td>
<td>Benthic Ecology</td>
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<tr>
<td>BIOL 520</td>
<td>Plant Physiology</td>
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<tr>
<td>BIOL 521</td>
<td>Field Studies of Flowering Plants</td>
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<tr>
<td>BIOL 532</td>
<td>Advanced Entomology</td>
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<tr>
<td>BIOL 547</td>
<td>Molecular Biology I</td>
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<tr>
<td>BIOL 548</td>
<td>Molecular Biology II</td>
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<td>BIOL 574</td>
<td>Behavioral Ecology</td>
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<tr>
<td>BIOL 576</td>
<td>Biology of Extreme Habitats</td>
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<td>BIOL 586</td>
<td>Selected Advanced Topics in Biology</td>
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<tr>
<td>BIOL 595</td>
<td>Conservation Biology: The Preservation of Biological Diversity</td>
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<tr>
<td>EAES 545</td>
<td>Paleoecology</td>
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<tr>
<td>EAES 563</td>
<td>Natural Resource Management</td>
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<tr>
<td>STAT 541</td>
<td>Applied Statistics</td>
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<tr>
<td>STAT 546</td>
<td>Non-Parametric Statistics</td>
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<tr>
<td>STAT 547</td>
<td>Design and Analysis of Experiments</td>
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<tr>
<td>STAT 548</td>
<td>Applied Regression Analysis</td>
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<tr>
<td><strong>Culminating Experience</strong></td>
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<tr>
<td>Research in Biological Literature</td>
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<tr>
<td>BIOL 597</td>
<td>Research in Biological Literature</td>
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<tr>
<td><strong>Thesis or Non-Thesis Option</strong></td>
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<tr>
<td>Select one of the following: 4-6 credits</td>
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<tr>
<td>Thesis - Complete for 6 credits</td>
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<tr>
<td>BIOL 698</td>
<td>Master's Thesis</td>
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<tr>
<td>Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.</td>
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<tr>
<td><strong>Research and Comprehensive Examination</strong></td>
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<tr>
<td>BIOL 599</td>
<td>Introduction to Biological Research</td>
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<tr>
<td>GRAD CMP</td>
<td>Comprehensive Examination</td>
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Total Credits: 32