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

For details about this program, including program description, admission requirements, and contact information, click here (https://www.montclair.edu/graduate/programs-of-study/biology-ecology-evolution-concentration-ms/).

## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 570</td>
<td>Ecology</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>or BIOL 579</td>
<td>Physiological Ecology of Animals</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3-4
- AQUA 551 Advanced Aquatic Biological Processes
- BIOL 572 Wetland Ecology
- BIOL 573 Shoreline Ecology

### Electives

Select 10-14 credits from the following: 10-14
- BIMS 564 Benthic Ecology
- BIOL 520 Plant Physiology
- BIOL 521 Field Studies of Flowering Plants
- BIOL 532 Advanced Entomology
- BIOL 547 Molecular Biology I
- BIOL 548 Molecular Biology II
- BIOL 574 Behavioral Ecology
- BIOL 576 Biology of Extreme Habitats
- BIOL 586 Special Topics in Advanced Biology
- BIOL 595 Conservation Biology: The Preservation of Biological Diversity
- EAES 545 Paleoecology
- EAES 563 Natural Resource Management
- STAT 532 Fundamentals of Statistics
- STAT 536 Statistical Theory
- STAT 537 Design and Analysis of Experiments
- STAT 538 Regression Methods

### Culminating Experience

#### Research in Biological Literature
- BIOL 597 Research in Biological Literature 1

**Thesis or Non-Thesis Option**

Select one of the following: 4-6
- Thesis - Complete for 6 credits
  - BIOL 698 Master’s Thesis
  - BIOL 599 Introduction to Biological Research

#### Research and Comprehensive Examination
- GRAD CMP Comprehensive Examination
  - In the term that you will sit for exam, register for the section which matches your major & advisor. Successfully pass exam.

Total Credits 32