# BIOLOGY, MS, NON-THESIS OPTION

## Program Requirements

### Requirements for Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>BIOL 5100</td>
<td>Advanced Experimental Design and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5010</td>
<td>Current Topics in Biology</td>
<td>6</td>
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<tr>
<td>BIOL 6010</td>
<td>Seminar in Biology</td>
<td>2</td>
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<tr>
<td>BIOL 6901</td>
<td>Non-Thesis Examination</td>
<td>1</td>
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</table>

**Elective Courses**<sup>2</sup>

Select four of the following: 20 units

- BIOL 4310 Conservation Biology
- BIOL 4320 Population and Community Ecology
- BIOL 4330 Behavioral Ecology
- BIOL 4340 Chemical Ecology
- BIOL 4350 Environmental Microbiology
- BIOL 4360 Aquatic Ecology
- BIOL 4410 Entomology
- BIOL 4420 Plant Diversity
- BIOL 4430 Wildlife Biology
- BIOL 4440 Molecular Genetics
- BIOL 4450 Genomics and Bioinformatics
- BIOL 4460 Evolutionary Genetics
- BIOL 4510 Comparative Vertebrate Structure
- BIOL 4530 Terrestrial Ecosystem Ecology
- BIOL 4540 Physiological Plant Ecology
- BIOL 4550 Plant Structure and Function
- BIOL 4560 Plant Pathology
- BIOL 4700 Special Topics in Biology<sup>3</sup>
- BIOL 5010 Current Topics in Biology<sup>4</sup>
- BIOL 5710 Advanced Topics in Biology<sup>3</sup>
- BIOL 5901 Research
- BIOL 5911 Graduate Practicum in the Teaching of Biology
- GEOL 4050 GIS for Natural Sciences
- GEOL 4770 Special Topics in Geology<sup>3</sup>
- GEOL 4771 Special Topics in Geology<sup>2</sup><sup>3</sup>
- GEOL 5070 Early Life on Earth
- GEOL 5770 Advanced Topics<sup>3</sup>
- GEOL 5771 Advanced Topics<sup>2</sup><sup>3</sup>
- GEOL 6770 Advanced Topics in Geology<sup>3</sup>
- MATH 5210 Applied Statistical Computing and Multivariate Methods | 4     |

**Total Units** 37

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<sup>1</sup> 2 units each and repeated three times.

<sup>2</sup> 4000-, 5000-, or 6000-level courses. Selection of elective courses must be approved by the Graduate Director.

<sup>3</sup> may be repeated for credit.

<sup>4</sup> when repeated in addition to the three required courses