# M.S. in Computational Biology

## Degree Requirements

A minimum of 30 credits is required for the degree, excluding bridge courses. The graduate curriculum consists of seven core courses and additional elective courses, with an optional thesis (six credits) or research project (three credits).

### M.S. in Computational Biology (courses only)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 630</td>
<td>Critical Thinking for the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 611</td>
<td>Numerical Methods for Computation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 630</td>
<td>Linear Algebra and Applications</td>
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</tr>
<tr>
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<td>Analytical Computational Neuroscience</td>
<td>3</td>
</tr>
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<td>MATH 663</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 615</td>
<td>Approaches to Quantitative Analysis in the Life Sciences</td>
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<tr>
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<td>Computational Ecology</td>
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</tr>
<tr>
<td>BNFO 601</td>
<td>Foundations of Bioinformatics I</td>
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Electives

Select three of the following: 9

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<tr>
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<tbody>
<tr>
<td>MATH 637</td>
<td>Foundations of Mathematical Biology</td>
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</tr>
<tr>
<td>MATH 644</td>
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<td>Cell Biology: Methods &amp; Appl</td>
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<tr>
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<td>MATH 672</td>
<td>Biomathematics I: Biological Waves and Oscillations</td>
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Total Credits 30

### M.S. in Computational Biology (Master's project)

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Master's Project

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<td>MATH 700</td>
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