### CELLULAR, MOLECULAR, AND MICROBIAL BIOLOGY M.S. - CELLULAR AND DEVELOPMENTAL BIOLOGY

**Master of Science - Cellular, Molecular, and Microbial Biology; Cellular and Developmental Biology Concentration**

**Degree Specific Credits:** 30

**Required Cumulative GPA:** 3.0

- All CMMB M.S. students also have a common set of requirements: students must take a total of 30 semester credits, including 20 semester credits of courses (includes any course other than Thesis and Research).
- At least half of the credits toward the degree must be at the 500 or 600 level.
- The following credit limitations apply:
  - 6 credits of Special Topics (BCH 595, BIOB 595 and BIOM 595).
  - 6 credits of Independent Study (BIOB 596, and BIOM 596).
  - 10 credits of research and thesis (BCH 597, BIOB 597, BCH 599, and BIOM 599).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BCH 570</td>
<td>Intro to Research</td>
<td>1</td>
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<tr>
<td>or BIOB 570</td>
<td>Intro to Research</td>
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<tr>
<td>BIOB 547</td>
<td>Experimental Molecular, Cellular, and Chemical Biology</td>
<td>2</td>
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<tr>
<td>BIOM 594</td>
<td>Molecular and Biomedical Sciences Seminar</td>
<td>4</td>
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**Elective Credits - Complete 13 credits of elective courses.** 13

Elective courses can include any graduate-level course in General Biology (BIOB), Microbiology (BIOM), and Biochemistry (BCH). Suggested courses include:

- BIO 502 Advanced Immunology
- BIOB 567 Molecular Analysis of Development
- BCH 582 Proteins and Enzymes
- BCH 584 Nucleic Acids
- BCH 600 Cell Organization & Mechanisms

**Thesis/Research - Complete 10 credits of thesis or research:** 10

- BCH 597 Research
- or BIOB 597 Research
- BCH 599 Thesis
- or BIOM 599 Thesis

**Total Hours** 30

Minimum Required Grade: C