DOCTOR OF PHILOSOPHY - CELLULAR, MOLECULAR, AND MICROBIAL BIOLOGY; CELLULAR AND DEVELOPMENTAL BIOLOGY CONCENTRATION

Degree Specific Credits: 60

Required Cumulative GPA: 3.0

- All CMMB PhD students have a common set of requirements: students must take a total of 60 semester credits, including 20 semester credits of courses (includes any course other than Dissertation and Research).
- At least three 3-credit (or more) graduate courses at the 500 or 600 level.
- In addition to coursework, all PhD students must teach at least one semester (typically as a Graduate Teaching Assistant) and must rotate in at least two research laboratories.
- The following credit limitations apply:
  - A maximum of 6 credits of Special Topics (BCH 595, BIOB 595 and BIOM 595).
  - A maximum of 6 credits of Independent Study (BIOB 596, and BIOM 596).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BCH 570</td>
<td>Intro to Research</td>
<td>2</td>
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<tr>
<td>or BIOM 570</td>
<td>Intro to Research</td>
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<tr>
<td>BIOB 547</td>
<td>Experimental Molecular, Cellular, and Chemical Biology</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 Courses can include any graduate-level course in General Biology (BIOB), Microbiology (BIOM), and Biochemistry (BCH). Suggested courses include:

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BCH 582</td>
<td>Proteins and Enzymes</td>
</tr>
<tr>
<td>BCH 584</td>
<td>Nucleic Acids</td>
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<td>BCH 597</td>
<td>Research</td>
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<td>or BIOM 597</td>
<td>Research</td>
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<tr>
<td>BCH 600</td>
<td>Cell Organization &amp; Mechanisms</td>
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<tr>
<td>BCH 699</td>
<td>Dissertation</td>
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<tr>
<td>or BIOM 699</td>
<td>Dissertation</td>
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