# Doctor of Philosophy - Cellular, Molecular, and Microbial Biology; Molecular Biology and Biochemistry Concentration

## Summary

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Courses</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Semester Credits</td>
<td>20-32</td>
</tr>
<tr>
<td></td>
<td>Dissertation/Research</td>
<td>18-30</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>48-72</td>
</tr>
</tbody>
</table>

### Degree Specific Credits: 60

### Required Cumulative GPA: 3.0

## Notes

- 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.

## Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete all of the following courses:</td>
<td></td>
</tr>
<tr>
<td>BCH/BIOM 570</td>
<td>Intro to Research</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 547</td>
<td>Experimental Molecular, Cellular, and Chemical Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOM 594</td>
<td>Seminar</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>10</td>
</tr>
</tbody>
</table>

Minimum Required Grade: C