Organic Chemistry Degree Plan

First year DBS students take 12 credit hours in fall and spring, and 6 credit hours in the summer semesters. In subsequent years they are enrolled in 9 credit hours in fall and spring, and 6 credit hours in the summer. Typically, didactic coursework is completed in the first year, and in subsequent years students are enrolled in dissertation research and a Work-In-Progress (WIP) seminar totaling full-time enrollment equivalency. Advancement of the student to Ph.D. candidacy is dependent upon successful completion of all coursework and the qualifying examination, which takes place in the second year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Half/ Full</th>
<th>Title</th>
<th>Credit Hour</th>
<th>Total Credit Hrs/Term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td>Fall</td>
<td>1st Half</td>
<td>Core Curriculum - Proteins</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd Half</td>
<td>Drug Discovery</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Full</td>
<td>Chemical Structure &amp; Reactivity</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced Problems in Reaction Mechanisms I</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Professionalism, Responsible Conduct of</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Research, and Ethics I</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Laboratory Rotations</td>
<td>3</td>
<td>Semester Total: 12</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>1st Half</td>
<td>Chemical Synthesis</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Materials Chemistry</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd Half</td>
<td>Advanced Synthesis &amp; Catalysis</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Enzymes &amp; Disease</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Full</td>
<td>Advanced Problems in Reaction Mechanisms II</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Professionalism, Responsible Conduct of</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Research, and Ethics II</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Laboratory Rotations</td>
<td>3.5</td>
<td>Semester Total: 12</td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td></td>
<td>Research</td>
<td>6</td>
<td>Semester Total: 6</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td>Fall</td>
<td>1st Half</td>
<td>Grant Writing Workshop</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full</td>
<td>Research</td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Full</td>
<td>Research</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td></td>
<td>Dissertation Research</td>
<td>6</td>
<td>Semester Total: 6</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
<td>Fall</td>
<td>Full</td>
<td>Dissertation Research</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Full</td>
<td>Dissertation Research</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td></td>
<td>Dissertation Research</td>
<td>6</td>
<td>Semester Total: 6</td>
</tr>
<tr>
<td><strong>Fourth Year &amp; Beyond</strong></td>
<td>Fall</td>
<td>Full</td>
<td>Dissertation Research</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Full</td>
<td>Dissertation Research</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Work-In-Progress Seminar (WIP)</td>
<td>1</td>
<td>Semester Total: 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td></td>
<td>Dissertation Research</td>
<td>6</td>
<td>Semester Total: 6</td>
</tr>
</tbody>
</table>

Minimum Credit Hours for PhD 102