## REQUIREMENTS FOR THE DOCTOR OF PHILOSOPHY

**DODGE COLLEGE OF ARTS AND SCIENCES**

**THE UNIVERSITY OF OKLAHOMA**

### Program Code: D170 R628

### Program Requirements

- Continuous enrollment in CHEM 5090 Departmental Colloquium is required for all Doctoral students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 5011</td>
<td>Fundamentals I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 5021</td>
<td>Fundamentals II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 5080</td>
<td>Laboratory Rotations</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 5291</td>
<td>Seminar in Biochemistry (Continuous enrollment, up to 12 credit hours, is required after the first semester)</td>
<td>1-12</td>
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</tbody>
</table>

### Core Courses

- CHEM 5240 Biochemical and Biophysical Methods 2
- CHEM 5730 Macromolecular Crystallography 2
- CHEM 5750 Macromolecular Structure and Function 2
- CHEM 5780 Practicum in Structural Biology 1

### Dissertation Research

- CHEM 6980 Research for Doctoral Dissertation (minimum 2 credits) 2

### Elective Coursework

Electives as approved by doctoral advisory committee to bring student to 90 post-baccalaureate hours. This may include up to 9 credits of CHEM 5990, Independent Study or up to 6 credits of CHEM 5960, Directed Readings in Chemistry. 1

| Total Credit Hours | 90 |

1The total number of letter-graded hours of Core and Electives combined must total at least 16 hours.

The additional coursework may include other concentrations in CHEM; out-of-department coursework; or transfer credits from an accredited college or university.

At least 1 course (2 credit hours) must come from within the department (CHEM), but from a concentration outside the student’s core courses.