
DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the [Graduate College Bulletin](#).

DOCTOR of PHILOSOPHY

D170/R628

MAJOR: Chemistry and Biochemistry

CONCENTRATION: Structural Biology

Program effective **Summer 2023**

COURSEWORK REQUIREMENTS

REQUIRED COURSEWORK

<input type="checkbox"/> CHEM 5090	Departmental Colloquium (continuous enrollment required).....	0 hours
<input type="checkbox"/> CHEM 5011	Fundamentals I.....	1 hours
<input type="checkbox"/> CHEM 5021	Fundamentals II.....	1 hours
<input type="checkbox"/> CHEM 5080	Laboratory Rotations	2 hours
<input type="checkbox"/> CHEM 5291	Seminar in Biochemistry.....	1-12 hours
Continuous enrollment in 5291 is required after the first semester, up to 12 credits or 90 total degree credit are reached.		
Total.....		5-16 hours

CORE COURSES

<input type="checkbox"/> CHEM 5240	Biochemical and Biophysical Methods.....	2 hours
<input type="checkbox"/> CHEM 5730	Macromolecular Crystallography.....	2 hours
<input type="checkbox"/> CHEM 5750	Macromolecular Structure and Function.....	2 hours
<input type="checkbox"/> CHEM 5780	Practicum in Structural Biology.....	1 hour
Total.....		7 hours

Elective Coursework

<input type="checkbox"/>	Additional 5000- and/or 60000-level coursework: minimum of 9 hours of coursework as approved by the Ph.D. advisory committee so that the total number of letter-graded hours of core and electives combined equals a minimum of 16 hours. The additional coursework may include other concentrations in CHEM; out-of-department coursework; or transfer credits from 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.	
Total.....		9+ hours

Directed Studies

<input type="checkbox"/>	Up to 9 hours of CHEM 5990 or 6 hours of CHEM 5960 can be used for degree requirements.	
Total.....		0-9 hours

Dissertation Research

<input type="checkbox"/> CHEM 6980	Research for Doctoral Dissertation.....	2+ hours
2 hours minimum.		

TOTAL..... 90 hours