

DOCTORAL DEGREE REQUIREMENTS

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

DOCTOR of PHILOSOPHY

D170/R520

MAJOR: Chemistry and Biochemistry

CONCENTRATION: Physical Chemistry

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 5591	Seminar in Physical Chemistry.....	1-12 hours
Continuous enrollment in 5591 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 5500	Topics in Quantum Chemistry.....	2 hours
<input type="checkbox"/> CHEM 5530	Topics in Statistical Thermodynamics	3 hours
Total.....		5 hours

Elective Coursework

Additional 5000- and/or 60000-level coursework; minimum of 11 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.....		11+ hours
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Directed Studies

Up to 9 hours of CHEM 5990 or 6 hours of CHEM 5960 can be used for degree requirements.

Total.....		0-9 hours
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Dissertation Research

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

<input type="checkbox"/> TOTAL.....	90 hours	
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