

DOCTORAL DEGREE REQUIREMENTS

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

DOCTOR of PHILOSOPHY

D170/R484

MAJOR: Chemistry and Biochemistry

CONCENTRATION: Organic 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 5491	Seminar in Organic Chemistry.....	1-12 hours
Continuous enrollment in 5491 is required after the first semester, up to 12 credits or 90 total degree credit are reached.		
Total.....		5-16 hours

CORE COURSES

Enrollment in any combination of the following 3 courses to equal a minimum of 6 hours.

<input type="checkbox"/> CHEM 5400	Organic Chemistry I: Mechanisms and Reactivity	2 hours
<input type="checkbox"/> CHEM 5430	Organic Chemistry II: Reactions and Synthesis	2-3 hours
<input type="checkbox"/> CHEM 5460	Special Topics in Chemical Reactivity and Physical Organic Chemistry.....	1-3 hours
Total.....		6+ hours

Elective Coursework

Additional 5000- and/or 60000-level coursework: minimum of 8 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..... 8+ hours

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

Dissertation Research

CHEM 6980 Research for Doctoral Dissertation.....**2+ hours**
2 hours minimum.

TOTAL..... 90 hours