# DOCTORAL DEGREE REQUIREMENTS

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

### DOCTOR of PHILOSOPHY

**MAJOR:** Chemistry and Biochemistry  
**CONCENTRATION:** Organic Chemistry  
Program effective Summer 2023

## COURSEWORK REQUIREMENTS

### REQUIRED COURSEWORK

- **CHEM 5090**  Departmental Colloquium (continuous enrollment required) ........................................ 0 hours
- **CHEM 5011**  Fundamentals I ..................................................................................................................... 1 hours
- **CHEM 5021**  Fundamentals II ....................................................................................................................... 1 hours
- **CHEM 5080**  Laboratory Rotations .................................................................................................................. 2 hours
- **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.

- **CHEM 5400**  Organic Chemistry I: Mechanisms and Reactivity ................................................................. 2 hours
- **CHEM 5430**  Organic Chemistry II: Reactions and Synthesis ............................................................................ 2-3 hours
- **CHEM 5460**  Special Topics in Chemical Reactivity and Physical Organic Chemistry ................................ 1-3 hours

**Total .......................................................................................................................... 6+ hours**

### Elective Coursework

- Additional 5000- and/or 6000-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**