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: Materials 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 5391/5591 Seminar in Inorganic/Physical Chemistry .................................................................................. 1-12 hours

Continuous enrollment in 5391 or 5591 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 5300 Intermediate Inorganic Chemistry .................................................................................................. 2 hours
- CHEM 5330 Advanced Inorganic Chemistry ...................................................................................................... 2-3 hours
- CHEM 5500 Topics in Quantum Chemistry ........................................................................................................ 2 hours

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

Elective Coursework

- Additional 5000- and/or 6000-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

- 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