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: Physical 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 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

- CHEM 5500  Topics in Quantum Chemistry ............................................................................................ 2 hours
- CHEM 5530  Topics in Statistical Thermodynamics .................................................................................. 3 hours

Total ......................................................................................................................................................... 5 hours

Elective Coursework

- Additional 5000- and/or 6000-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

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