PH.D. IN CHEMISTRY

The general requirements for the doctorate in Chemistry are set forth in this Bulletin under the heading Doctor of Philosophy. The Department of Chemistry has the following specific requirements:

The PhD degree requires a minimum of 60 credit hours. The department will cover tuition costs up to 60 credit hours for students on assistantships and fellowships.

### Code | Title | Credit Hours
---|---|---
CHM 600 level or Higher | | 18
CHM 779 | Chemistry Seminar | 4
CHM 780 | Chemistry Seminar | 1
CHM 785 | Introduction to Research | 2
CHM 788 | Problems in Research Planning | 2
CHM 830 | Doctoral Dissertation | 26
CHM 840 | Post-candidacy Dissertation | 6
CHM 880 | Doctoral Dissertation Seminar | 1
Total Credit Hours | | 60

Students must take 18 credits of formal lecture courses by the end of the spring semester of their first year. Of the 18 credit hours, 4 core courses totaling 12 credit hours should be taken by all graduate students.

**Suggested Plan of Study**

**Course**

**Title**

**Credit Hours**

**Year One**

**Fall**

CHM 600 level courses | | 9
CHM 779 | Chemistry Seminar | 1
CHM 785 | Introduction to Research | 2
Credit Hours | 12

**Spring**

CHM 600 level courses | | 9
CHM 779 | Chemistry Seminar | 1
Credit Hours | 10

**Year Two**

**Fall**

CHM 779 | Chemistry Seminar | 1
CHM 830 | Doctoral Dissertation | 6
Credit Hours | 7

**Spring**

CHM 779 | Chemistry Seminar | 1
CHM 830 | Doctoral Dissertation | 4
Credit Hours | 5

**Year Three**

**Fall**

CHM 780 | Chemistry Seminar | 1
CHM 830 | Doctoral Dissertation | 6
Credit Hours | 7

**Spring**

CHM 788 | Problems in Research Planning | 2

**Year Four**

**Fall**

CHM 830 | Doctoral Dissertation | 4
Credit Hours | 6

**Spring**

CHM 840 | Post-candidacy Dissertation | 6
CHM 880 | Doctoral Dissertation Seminar | 1
Credit Hours | 7
Total Credit Hours | 60

- The required number of credit hours in the chemistry seminar (CHM 779) must be taken in the first and second year.
- The required number of credit hours in Introduction to Research (CHM 785) must be taken in the first year.
- The required number of credit hours in the chemistry seminar (CHM 780) must be taken in the fall semester of the third year.
- The required number of credit hours in Pre-candidacy Doctoral Dissertation (CHM 830) must be taken in the first, second, third and fourth year.
- The required number of credit hours credits in Post-candidacy Doctoral Dissertation (CHM 840) must be taken in the fourth year.
- An Oral Comprehensive Exam must be passed before the end of the spring semester of the second year.
- An original research proposal in Problems in Research Planning (CHM 788) must be presented and defended before the end of the spring semester of the third year.
- A Doctoral Dissertation (CHM 880) based on research of a quality acceptable for publication in a recognized scientific journal must be completed before the end of the fifth year.