

# CHEMISTRY, PH.D.

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## Learning Outcomes

- Doctoral students in Chemistry will Identify and conduct original research.
- Doctoral students in Chemistry will effectively communicate in their field of study through oral and written components.
- Doctoral students in Chemistry will critically and creatively solve problems in their field of study.
- Doctoral students in Chemistry will conduct ethical research in a responsible manner.
- Doctoral students in Chemistry will demonstrate attributes of professional development consistent with expectations within their field of study.

## Degree Requirements (60 Post Baccalaureate Hours)

### Course Work

A Ph.D. candidate, while earning a minimum of 60 hours of course work beyond the baccalaureate degree, must complete:

#### Five 700-Level courses

(CHEM 701, CHEM 790, CHEM 791, CHEM 898, and CHEM 899 may not be used to satisfy this requirement.)

#### Two Semesters of Thesis Research

Course	Title	Credits
CHEM 790	Introduction to Research	3
CHEM 791	Introduction to Research	3
<b>Total Credit Hours</b>		<b>6</b>

#### Present Two Divisional Seminars

Course	Title	Credits
CHEM 701	Seminar	1
CHEM 701	Seminar	1
<b>Total Credit Hours</b>		<b>2</b>

Course	Title	Credits
24 Credits of CHEM 898		24
CHEM 898	Research in Chemistry II	
<b>Total Credit Hours</b>		<b>24</b>

#### At Least 12 Credit Hours of the Following Must be Completed

Course	Title	Credits
CHEM 899	Dissertation Preparation	12
<b>Total Credit Hours</b>		<b>12</b>

Note: The student must complete an oral and written comprehensive exam. The Oral Comprehensive Exam consists of a description of the dissertation research progress to date and future plans. The Written Comprehensive Exam consists of an original research idea.

Detailed departmental degree requirements are outlined in the Department of Chemistry and Biochemistry's Graduate Student Handbook, which is available on the website. An electronic copy can be requested from the graduate director.