Chemistry, PhD

Academic Plans

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Chemistry, PhD

Course	Title	Hours
Academic Career		
Any Semester		
72 s.h. must be graduate level coursework; graduate transfer credit will be given consideration for a maximum of 6 s.h. of the 11 s.h. of required advanced coursework. More information is included in the General Catalog and on the department website. [a, b]		
Graduate College program GPA of at least 3.00 is required. [c]		
	Hours	**0**
First Year		
Any Semester		
Complete proficiency requirement [a]		
	Hours	**0**
Fall		
CHEM:5091	Graduate Chemistry Orientation	3
CHEM:5990	Chemistry Colloquium	0
CHEM:7999	Research in Chemistry	3
Divisional seminar		0
Proficiency course [d]		3
Proficiency course [d]		3
	Hours	**12**
Spring		
CHEM:5990	Chemistry Colloquium	0
CHEM:6990	Research Seminar [e]	1
CHEM:7999	Research in Chemistry	2
Advanced course [f]		3
Advanced course [f]		3
Divisional seminar		0
Proficiency course [d]		3
	Hours	**12**
Second Year		
Any Semester		
Exam: Doctoral Comprehensive Exam [g]		
	Hours	**0**
Fall		
CHEM:5990	Chemistry Colloquium	0
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	5
Advanced course [f]		3
Advanced course [f]		2
Divisional seminar [h, i]		1
	Hours	**12**
Spring		
CHEM:5990	Chemistry Colloquium	0
CHEM:6990	Research Seminar	1
CHEM:7270	Ethics in Chemical Sciences	1
CHEM:7999	Research in Chemistry	7
Advanced or elective course [f]		3
Divisional seminar		0
	Hours	**12**
Third Year		
Fall		
CHEM:5013	Science Writing in Chemistry [j]	1
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	6
	Hours	**8**
Spring		
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	7
	Hours	**8**
Fourth Year		
Fall		
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	1
	Hours	**2**
Spring		
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	1
	Hours	**2**
Fifth Year		
Fall		
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	1
	Hours	**2**
Spring		
CHEM:6990	Research Seminar	1
CHEM:7999	Research in Chemistry	1
Exam: Doctoral Final Exam [k]		
	Hours	**2**
	Total Hours	**72**

a Students must demonstrate basic proficiency in three chosen sub-disciplines of chemistry(analytical, biochemistry, inorganic, organic, physical). Proficiency is established in one of the following ways: 1) scoring at the 50th percentile level on the proficiency exam; 2) completing a one-semester review course with a grade of C or better; or 3) completing a one-semester graduate-level/advanced course in that sub-discipline of chemistry with a grade of B or better. The proficiency requirement must be fulfilled before the beginning of the student's third semester in the graduate program.

b Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information.

c Graduate College program GPA is comprised of all courses that are approved degree requirements. If a student takes more than the minimum required number of semester hours to complete the degree, but all courses taken are eligible to count toward the degree, those courses will be included in the Graduate College program GPA.

d May take another course if proficiency requirement has been satisfied; work with faculty advisor to determine appropriate graduate coursework and sequence.
e Students should begin taking research seminar after joining a research group.
f Includes research; work with faculty advisor to determine appropriate graduate coursework and sequence.
g Students must complete the oral comprehensive examination not later than the end of their second year of enrollment.
h Students are expected to give a minimum of two acceptable seminars. One seminar must cover the student's research; the other may also deal with the student's research or can be an extensive literature report.
i First required seminar.
j Can be taken any fall semester after the Doctoral Comprehensive Exam.
k Dissertation defense at which time candidates present at least one published or accepted paper in a peer-reviewed journal based on the publishable portion of the thesis.