

CHEMISTRY, PHD

for the degree of Doctor of Philosophy in Chemistry

department head chemistry: Catherine J. Murphy

overview of admissions & requirements: <https://chemistry.illinois.edu/admissions/graduate-admissions> (<https://chemistry.illinois.edu/admissions/graduate-admissions/>)

overview of grad college admissions & requirements: <https://grad.illinois.edu/admissions/apply> (<https://grad.illinois.edu/admissions/apply/>)

department website: Chemistry (<https://chemistry.illinois.edu/>)

department faculty: <https://chemistry.illinois.edu/directory/faculty-by-type> (<https://chemistry.illinois.edu/directory/faculty-by-type/>)

college website: <https://las.illinois.edu/>

department office: 109 Noyes Laboratory, 505 South Mathews Avenue, Urbana, IL 61801-3080

phone: (217) 333-0711

email: c (<http://catalog.illinois.edu/graduate/las/chemistry-phd/chemadm@illinois.edu>)hemistry@illinois.edu (<http://catalog.illinois.edu/graduate/las/chemistry-phd/chemadm@illinois.edu>)

Graduate Degree Programs in Chemistry

Chemistry, MA (<http://catalog.illinois.edu/graduate/las/chemistry-ma/>)

Chemistry, MS (<http://catalog.illinois.edu/graduate/las/chemistry-ms/>)

Chemistry, PhD (p. 1)

concentrations:

Astrochemistry (<http://catalog.illinois.edu/graduate/las/concentration/astrochemistry/>)|Computational Science & Engineering (<http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/>)

Chemical Physics, PhD (<http://catalog.illinois.edu/graduate/las/chemical-physics-phd/>)

Teaching of Chemistry, MS (<http://catalog.illinois.edu/graduate/las/teaching-chemistry-ms/>)

Admission

Graduate College requirements apply. Further, applicants should have a bachelor's degree or its equivalent from an accredited college or university in the U.S. or an approved institution of higher learning abroad, with at least 25 semester hours in chemistry (properly distributed) and a grade point average of 3.0 (A = 4.0), is required to be considered for admission to the graduate programs. Applications from students with less than the usual preparation in chemistry or with grade point averages below 3.0 may be considered on an individual basis.

International students whose native language is not English are required to have a minimum paper-based Test of English as a Foreign Language (TOEFL) score of 580 (237 on the computer-based test). In addition, teaching is a requirement in the chemistry graduate program, and there are special requirements for applicants whose native language is not English. The University requires a minimum Test of Spoken English (TSE) score of 50. Any applicant whose native language is not English is expected to provide TSE scores in order to receive full consideration for admission and financial aid.

Graduate Record Exam (GRE) scores (general or subject) are not required. Please do not submit them.

Students who are currently enrolled in graduate programs at other institutions are advised that they should first complete degree work at their current institution before they will be considered for admission to the chemistry PhD program at the University of Illinois. In addition, we require a statement from the applicant and a letter from the applicant's research adviser or department head detailing the situation. Students might be admitted without a degree from their current institution under exceptional circumstances that will need to be described in detail via a letter from the applicant and a separate statement from the department head of the student's current graduate program.

Contact chemistry graduate admissions for further information.

Graduate Teaching Experience

Experience in teaching is considered a vital part of the graduate program and is required as part of the academic work of all Ph.D. candidates in this program.

Financial Aid

Support for graduate students is available through fellowships and assistantships. All candidates are considered for these upon application. Graduate students making normal progress toward their degrees generally receive a tuition waiver as well as a stipend.

for the Doctor of Philosophy in Chemistry

Doctoral programs are offered in a wide range of specialties, including the traditional areas of analytical, inorganic, organic, and physical chemistry as well as materials chemistry and chemical biology. The formal course requirements involve 12 or more hours of 500-level courses, plus 8 or fewer hours of 400-level courses, for a total of 20 hours in chemistry and allied relevant fields. Besides completing formal coursework, students will present a literature seminar, have a formal review of progress following the completion of coursework, pass an oral preliminary examination on research preparation, present and defend an original research proposal not related to their thesis research, and submit a thesis on original research, which is defended at a final oral examination.

For additional details and requirements refer to the department's Graduate Programs (<https://chemistry.illinois.edu/academics/graduate-studies/>) and the Graduate College Handbook (<http://www.grad.illinois.edu/gradhandbook/>).

Entering with M.S./M.A. degree

Code	Title	Hours
400- 500-level courses in Chemistry or allied fields (max 8 at 400-level)		20
Seminar (CHEM 5X5)		1
CHEM 599	Thesis Research (0 min applied toward degree)	0
Total Hours		64

Other Requirements

Requirement	Description
Other requirements may overlap	
Teaching experience	1 year
Qualifying Exam Required	No
Preliminary Exam Required	Yes
Original Research Proposal	Yes
Final Exam/Dissertation Defense Required	Yes
Dissertation Deposit Required	Yes
Minimum GPA:	3.0

Entering with approved B.S./B.A. degree

Code	Title	Hours
400- or 500-level courses in the Chemistry or allied fields (max 8 at 400-level)		20
Seminar		1
CHEM 599	Thesis Research (0 min applied toward degree)	0
Total Hours		96

Other Requirements

Requirement	Description
Other requirements may overlap	
Teaching experience	1 year
Qualifying Exam Required	No
Preliminary Exam Required	Yes
Original Research Proposal	Yes
Final Exam/Dissertation Defense Required	Yes
Dissertation Deposit Required	Yes
Minimum GPA:	3.0