

# CHEMISTRY

PhD IN CHEMISTRY • MS IN CHEMISTRY

The Department of Chemistry provides graduate students a unique atmosphere with state-of-the-art instrumentation, talented teachers, and motivated researchers. Much of the current research includes traditional fields of chemistry as well as interdisciplinary areas such as bioorganic, bioinorganic, biophysical, forensic, environmental chemistry, and material science. Weekly seminars and the annual Denkewalter Lecture (which brings the winner of either the American Chemical Society's Pure Chemistry or Eli Lilly awards to campus) provide opportunities to learn about recent advances from respected academic and industrial scientists.

## PhD IN CHEMISTRY

The PhD program at Loyola University Chicago encompasses the traditional fields of specialization, including:

- Analytical Chemistry
- Chemistry Education
- Organic Chemistry
- Biochemistry
- Inorganic Chemistry
- Physical Chemistry

As a part of their study, PhD candidates must write and orally defend a research dissertation of publishable quality and have a manuscript about their research work accepted in a peer reviewed journal.

## MS IN CHEMISTRY

Students may choose from either a thesis-based master's degree program or a course-based master's degree program.

**THESIS-BASED PROGRAM.** This program requires at least five courses in chemistry, with at least two courses completed in the student's major field and three in the student's minor fields. The remaining credits are earned in research courses. To complete the degree, students must write and defend a research thesis.

**COURSE-BASED PROGRAM.** This program requires eight graduate-level courses in chemistry. One course must be taken in four of the following five areas: analytical, biochemistry, inorganic, organic, and physical. The remaining four courses may be distributed among the different areas, or a student may specialize in a particular area.

### PROGRAM STRUCTURE

The degree offers part- and full-time enrollment  
*PhD program average time to completion: 4.5 years (full time), 7 years (part time)*  
*MS program (thesis based) average time to completion: 2 years (full time), 4 years (part time)*  
*MS program (course based) average time to completion: 2 years (full time), 4 years (part time)*

### ACADEMIC & STUDENT LIFE

Student organizations as well as service-learning opportunities are offered through the program.  
*The Graduate Student Advisory Council*  
*Service-learning opportunities can include teaching assistantships and tutoring*

## EXPECTATIONS AFTER GRADUATION

Graduates have been successful advancing professionally, obtaining employment by teaching at smaller colleges and universities, working in the chemical and pharmaceutical industries or contract laboratories, and at government research labs.

- Recent graduates are now employed at organizations like Abbot Laboratories, Kankakee Community College, Seattle Community College, and S.C. Johnson.
- Career services are available—learn more at [LUC.edu/gradschool/pcap/preparingyourcareer](http://LUC.edu/gradschool/pcap/preparingyourcareer).

## PROGRAM DISTINCTIONS

The program provides graduate students a unique atmosphere with state-of-the-art instrumentation, talented teachers, and motivated researchers. The program features small research groups of two to three graduate students per faculty member in all areas of chemistry: analytical, bio, inorganic, organic, physical chemistry, and recently chemistry education. This allows for individual instruction and mentoring of each student—the completion rate for graduates is high. In addition, most of our students have the opportunity to teach undergraduate laboratory sections and mentor undergraduate research students during their time as graduate students, thus honing their skills as future educators. Weekly seminars and the annual Denkewalter lecture provide students with the latest research developments.

## FACULTY

Chemistry faculty members are both passionate about their teaching and dedicated to their research. Professional faculty members work with notable organizations like the American Chemical Society and Abbvie. Areas of faculty interest include surface, organometallic, biophysical, medicinal, and environmental chemistry, mass spectrometry, molecular modeling, information statistics, catalysis, nanomaterials, and chemical education.

## PREREQUISITES

Students are required to have earned a BS in chemistry, biochemistry, or a related field. Please note, these courses cannot be taken as part of the program.

## FINANCIAL AID

Begin the financial aid process by completing your Free Application for Federal Student Aid (FAFSA) at [fafsa.ed.gov](http://fafsa.ed.gov).

The Graduate School has limited funds available for financial assistance. Financial aid from Loyola's Financial Aid Office will not impact your ability to apply for financial aid through the Graduate School. To learn more about these financial aid opportunities, visit [LUC.edu/finaid/graduateschool](http://LUC.edu/finaid/graduateschool).

## LEARN MORE

APPLY

[gpem.LUC.edu/apply](http://gpem.LUC.edu/apply)

*For all application requirements and deadlines, please visit [LUC.edu/gpem/info](http://LUC.edu/gpem/info).*

CONTACT INFORMATION

*For further information about the academic program or to arrange a visit, please contact:*

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Loyola University Chicago  
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Chicago, IL 60660

PHONE: 773.508.3100

ONLINE: [LUC.edu/chemistry](http://LUC.edu/chemistry)

*For questions regarding your application or the application process, please contact:*

Graduate and Professional  
Enrollment Management  
Loyola University Chicago  
820 N. Michigan Avenue  
Lewis Towers 1200  
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PHONE: 312.915.8950

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