



GRADUATE

## Chemistry

College of Arts and Sciences  
Department of Chemistry

# SIUE

[siue.edu/grad/chemistry](http://siue.edu/grad/chemistry)

### Chemistry at SIUE

Students pursuing the Master of Science (MS) in chemistry explore advanced topics in chemistry and become proficient in lab techniques and problem-solving skills. Our students have access to state-of-the-art equipment and laboratories in Science Building West.

### Degrees Available at SIUE

- Master of Science in Chemistry
  - A secondary education chemistry teaching focus is available with our Master of Science in Education (MSEd) in curriculum and instruction

### Program Format

The program can be completed within a two-year timeframe through a mix of traditional daytime and evening courses.

### What can I do with a degree in chemistry?

Students earning a master's degree in chemistry will be well-prepared to pursue a variety of careers. Our graduates learn skills in the classroom and in research laboratories that ensure they are productive problem solvers throughout their career. **SIUE graduates are frequently sought after by local employers.**

According to the American Chemical Society, the fields employing the most chemists include:

- Biochemistry
- Analytical chemistry
- Organic chemistry
- Physical chemistry

Chemistry majors work as:

- |                     |                      |
|---------------------|----------------------|
| • Analysts          | • Production foremen |
| • Environmentalists | • Researchers        |
| • Criminologists    | • Writers            |
| • Librarians        | • Teachers           |
| • Patent examiners  |                      |

Chemists also find work in sales and for private companies that produce items such as fertilizers, pharmaceuticals, plastics and semiconductors. Careers in the public sector can be found in:

- Local, state and federal governments
- Hospitals
- High schools
- Colleges
- Universities

SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**  
GRADUATE SCHOOL

## Admission Requirements

- Graduate School application and \$40 fee
- Submission of all postsecondary academic transcripts
- Must have completed at least 36 semester hours in chemistry with an overall GPA of at least 3.0 on a 4.0 scale.
- International students: A minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) test, 79 on the internet-based TOEFL test, or Overall Band of 6.5 on International English Language Testing System (IELTS), is required.
- All applicants must provide evidence to show they can participate effectively in the Department's program. Evidence should include the completion of a baccalaureate degree in chemistry or related science majors.
  - Evidence may also be previous, related study or creative work, two letters of recommendation, research papers, GRE (not required) or honors and awards.

Program application materials may be uploaded during the application process, but official transcripts must be sent directly from the school attended, and test scores must be verifiable with the appropriate testing service. Please contact the Graduate Admissions office with questions regarding the application submission process at [graduateadmissions@siue.edu](mailto:graduateadmissions@siue.edu).

## Graduation Requirements

Students following the thesis plan will make an oral presentation and defense of their thesis results. Students who pursue the non-thesis plan of study will make an oral presentation and defense of a final paper based on a current literature topic and/or their research achievements.

## Required Credit Hours/Tuition and Fees

- 30
- Visit [siue.edu/graduate-tuition](http://siue.edu/graduate-tuition) for detailed tuition information

## Curriculum

All students must complete 30 semester hours of graduate coursework with a GPA of 3.2 or higher on a 4.0 scale. At least 24 hours must be in 500-level chemistry courses. Both thesis and non-thesis plans of study are available.

### Both thesis and non-thesis plans require:

**Core course requirements** (12 hours) selected from: CHEM 511, 531, 541, 551, 561

**Graduate seminar** (2 hours): Attendance in CHEM 575 is required for each semester during the academic year

**Electives** (6 hours): Coursework may include non-chemistry courses that will contribute to the student's career objectives

### Additional requirements for thesis plan:

Successful completion of at least 10 hours of CHEM 597 and 599 is required. Satisfactory completion requires the submission of an acceptable thesis, oral presentation and defense of thesis results.

### Additional requirements for non-thesis plan:

Acceptance into the non-thesis plan by the graduate committee and 10 additional hours of coursework at the 500-level are required. Up to four hours of credit from CHEM 596 and 597 can be applied toward the non-thesis plan. Students who pursue the non-thesis plan of study will make an oral presentation and defense of a final paper based on a current literature topic and/or their research achievements.

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### Contact Information

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