

# Graduate Chemistry

## 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.

## Combined Option

- Early Entry BS and MS in Chemistry

## Chemistry at SIUE

Students in the master of science (MS) program in chemistry through SIUE's College of Arts and Sciences explore advanced topics in chemistry and become proficient in lab techniques and problem-solving skills. The Department of Chemistry is housed in the newly built Science Building West. Our students have access to state-of-the-art equipment and laboratories. The MS program can be completed within a two-year timeframe.

## Career Opportunities

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 and physical chemistry. Chemistry majors work as analysts, environmentalists, criminologists, librarians, patent examiners, production foremen, researchers, writers and teachers. Chemists also find work in sales and for private companies that produce items such as fertilizers, pharmaceuticals, plastics and semi-conductors. Careers in the public sector can be found in local, state and federal governments, as well as hospitals, high schools, colleges and universities.

## Hands-on Learning

Faculty members in the Department of Chemistry pursue research interests in their area of expertise. Most faculty members work with groups of graduate and undergraduate students on research projects that lead to publication and funding opportunities. A complete list of research projects and available equipment can be found by visiting [siue.edu/artsandsciences/chemistry](http://siue.edu/artsandsciences/chemistry).

## Global Experience

With faculty members from Canada, China, Iran, Italy, Japan, Taiwan and the United States, the master of science (MS) program in chemistry at SIUE appeals to both domestic and international students. Our faculty members have experience with international collaboration, and many of our students present their research at internationally recognized conferences.

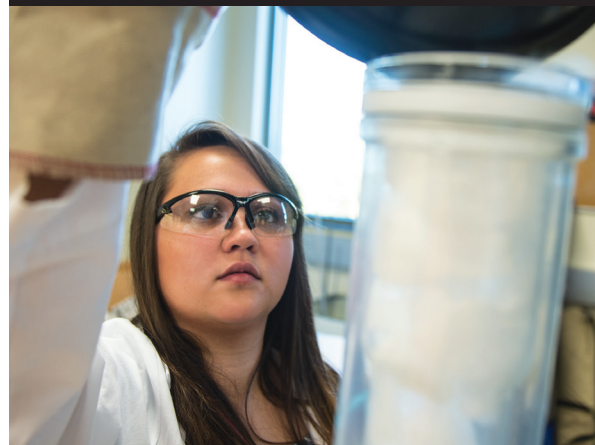
International graduate students from China, Ghana, India, Iran, Iraq, Nepal, Nigeria, Saudi Arabia, and Turkey, as well as many other countries, have realized the value of a master's degree from SIUE. Many of these students have been able to enroll directly into a PhD program upon completion of their master's degree.

## Admission Requirements

- Graduate School application and \$40 fee
- Submission of all post-secondary academic transcripts
- Must have completed at least 36 semester hours in chemistry with an overall grade point average (GPA) of at least 3.0 on a 4.0 scale.
- For 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 that 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 (2) letters of recommendation, research papers, GRE (not required) or honors and awards.

# SIUE

College of Arts and Sciences  
Department of Chemistry



## Faculty

### Graduate Committee Chair

**Yun Lu, PhD**  
Physical Organic  
Chemistry

**Cristina De Meo, PhD**  
Bio-Organic Chemistry

**Robert P. Dixon, PhD**  
Bio-Organic Chemistry

**Jie Dong, PhD**  
Fermentation Chemistry

**Michael Hankins,  
PhD**  
Physical Chemistry

**Myron W. Jones, PhD**  
Inorganic Chemistry

**Sarah B. Luesse, PhD**  
Synthetic Organic  
Chemistry

**Edward Navarre, PhD**  
Analytical Chemistry

**Leah O'Brien, PhD**  
Molecular Spectroscopy

**Monica Rieth, PhD**  
Biochemistry

**Nahid Shabestary,  
PhD**  
Physical Chemistry

**Michael Shaw, PhD**  
Inorganic Chemistry

**Mina Sumita, PhD**  
Biochemistry

**Kevin Tucker, PhD**  
Analytical Chemistry

**Eric Voss, PhD**  
Inorganic Chemistry

**Chin-Chuan Wei, PhD**  
Biochemistry

**Susan D. Wiediger,  
PhD**  
Chemical Education

SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**

GRADUATE SCHOOL

### Admission Requirements, Cont.

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).

Review the SIUE Admissions Policy for more information.

### 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.

Review the graduation policy for more information.

### Curriculum

All students must complete 30 semester hours of graduate coursework with a grade point average (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 ten (10) additional hours of coursework at the 500-level are required. Up to four (4) 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.

### Contact Information

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College of Arts and Sciences  
Southern Illinois University Edwardsville  
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