

### Graduate Certificate Biochemistry

#### **Program Requirements:**

A minimum of 12 credit hours are required for the degree program.

- The graduate Certificate in Biochemistry provides skills and training necessary to advance in the area of biochemistry, which deals with the structure, composition, and chemical reactions of substances in living systems. Biochemistry includes bioorganic, bioinorganic, and biophysical chemistry.
- The Certificate requires three biochemistry lecture courses (each three credits) and three credits of elective courses. A minimum of three of the courses must be taken at UMSL. Research credits must be taken at UMSL. Courses may be substituted with the permission of the Certificate coordinator. For more information, students can contact the Department of Chemistry and Biochemistry.
- Students admitted to the Chemistry M.S. program are automatically eligible to pursue the Certificate; however, they must apply separately to the Certificate program. Students must maintain a minimum GPA of 3.0 to remain in the Certificate program. The certificate is awarded after completion of the 12 credit hours of courses listed below. Students must apply to be awarded the Certificate. Courses taken while enrolled as an undergraduate may not be repeated nor will they count towards the Certificate.
- This 12-credit-hour certificate program also counts toward the 30-credit-hour Master of Science in Chemistry degree program requirements. Students may choose to combine this certificate with other courses and/or certificates to obtain the Master of Science in Chemistry degree.

#### **Application Requirements:**

1. [Online Graduate Application](#)
2. Statement of Purpose: A 1-2 page essay explaining your interest in the program and why you are a strong candidate.
3. Official transcripts from all universities attended. A Bachelor's degree is required.
4. Entrance examinations:
  - a. International Students must document English proficiency by providing scores from an internationally accepted standardized examination. See [International Admissions](#) for more information.
5. **Minimum GPA of 3.0 on 4.0 scale**
6. Letters of Recommendation: 2 letters of recommendation are required from individuals who can evaluate your recent academic performance.

#### **Application Deadlines:**

Domestic Applicants: Fall - July 1 ♦ Spring - December 1 ♦ Summer - May 1

Applications are processed as they are submitted. However, applications that are not received by the posted date may delay admission until the following semester.

#### **Application Fees:**

\$50 for domestic applicants

\$40 for international applicants

#### **Graduate Program Director:**

Contact Dr. Michael R. Nichols by [nicholsmic@umsl.edu](mailto:nicholsmic@umsl.edu) or by phone (314) 516-7345

#### **Director of Graduate Studies:**

Contact Dr. Eike Bauer by email at [bauere@umsl.edu](mailto:bauere@umsl.edu) or by phone (314) 516-5340