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### Biomedical Science

The biomedical science program provides broad interdisciplinary graduate training in the biomedical sciences leading to the Master of Science degree. The program utilizes the faculty, facilities, and courses of Physiology, Anatomy, Molecular Biology, Microbiology and Biochemistry. The program is designed for those students who desire a broad-based curriculum in the biomedical sciences in preparation for health professions school matriculation or a health professions or research career.

### Master of Science (M.S.) in Biomedical Science

#### Admission

All applicants must submit an application to the Biomedical Science program. Applicants must meet the minimal requirements of the Graduate School before being considered for admission to Biomedical Science. A completed application includes the program application form, two letters of recommendation, and transcripts of all previous college credit. This program requires a nonrefundable \$65 application fee that must be submitted with the application for Admissions to Graduate Study in Biomedical Science. Applicants must pay this fee by credit card.

In addition to Graduate School admission requirements, applicants must hold a bachelor's degree. In addition, applicants must have completed all, or all but a maximum of two courses, of undergraduate prerequisite science coursework:

- Two semesters with laboratory in the biological sciences;
- Two semesters with laboratory of major or pre-medical general chemistry;
- Two semesters with laboratory of major or pre-medical organic chemistry, or a one year organic chemistry/ biochemistry sequence with 2 credits of laboratory;
- Two semesters with laboratory of major or pre-medical physics.

Application forms are available online at [gradschool.siu.edu/applygrad](https://gradschool.siu.edu/applygrad).

#### Advisement

Students are advised by Biomedical Science program director and faculty in Physiology. Advisement arrangements are made immediately after admission. A program of course work must be approved by the advisor and filed with the director no later than the fourth week of the first semester of registration in the program. Any deviation from the course work program during the student's tenure must be approved by the advisor and filed with the director.

#### Graduation Requirements

Graduation requirements include a total of 30 credit hours of 400- or 500-level courses with the following provisions:

- A minimum of 21 graded hours in biological sciences content areas, including biology, microbiology, physiology, anatomy, molecular biology, and biomedical science, or statistics.
- A 21 credit hour core curriculum consisting of:
  - BMS 500A Orientation Seminar [1 semester, 1 credit hour total].
  - BMS 500B Program Seminar [1 semester, 1 credit hour total].

- BMS 501A; BMS 501B Scientific Approach and Application I and II [2 semesters, 4 credit hours total].
- MBMB 550A; MBMB 550B Biochemistry I & II or higher level equivalent [6 credit hours total].
- 3 credit hours of Human or Mammalian Physiology.
- 3 credit hours of Human Anatomy.
- 3 credit hours of Statistics.
- Electives totaling a minimum of 9 credit hours.
- Completion of a program-administered mock national professional school entrance examination.

## Biomedical Science Courses

**BMS500A - Biomedical Science Orientation Seminar** Seminar on social, professional, and scientific issues of interest to students planning a career in the biomedical sciences or the health professions. Course focuses on development of professional writing and speaking skills. Restricted to BMS students. Credit Hours: 1

**BMS500B - Biomedical Science Program Seminar** Seminar on social, professional, and scientific issues of interest to students planning a career in the biomedical sciences. Course focuses on continued development of professional writing, and approaches to professional school application. Restricted to BMS students. Credit Hours: 1

**BMS501A - Scientific Approach and Application I** Focus is on application of concurrent biomedical science course material to understanding of biomedical science research and biological problem solving. Restricted to BMS students. Credit Hours: 2

**BMS501B - Scientific Approach and Application II** Application of concurrent biological science course material to understanding of biomedical science research and biological problem solving. Course also focuses on preparatory strategies for professional school admissions examinations. Restricted to BMS students. Credit Hours: 2

## Biomedical Science Faculty

**Metz, Anneke M.**, Assistant Professor and Director of Premedical Programs, Biochemistry, Ph.D., University of Texas, 1998; 2009. Biology education; pre-health professional education.

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Last updated: 01/26/2022

### **Southern Illinois University**

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### **Catalog Year Statement:**

Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.