

BACHELOR OF SCIENCE IN BIOLOGY - CLINICAL LAB SCIENCE EMPHASIS, 2024-25

For more information about policies and requirements, please see the UMKC 2024-25 Catalog.

FIRST YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
BIOLOGY 108/108L General Biology I	4	BIOLOGY 109/109L General Biology II	4
CHEM 211/211L General Chemistry I	5	CHEM 212R/ 212LR General Chemistry II	5
GEFSE 101 First Semester Experience	3	ENGLISH 110 English I: Intro to Academic Prose	3
GECRT-SC Critical Thinking in Natural & Physical Sci	3	GECRT-SS Critical Thinking in Social & Behavioral Sciences	3
TOTAL	15	TOTAL	15

SECOND YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
BIOLOGY 202 Cell Biology	3	BIOLOGY 206 Genetics	3
STAT 235, 115, MATH 210, or BIOLOGY 304	3	CHEM 320/320L Elementary Organic Chemistry	5
PHYSICS 210 General Physics I	4	PHYSICS 220 General Physics II	4
Communication Requirement (COMM-ST 110, 140, 212 or 277)	3	GECRT-AH Critical Thinking in Arts & Humanities	3
ENGLISH 225 English II: Intermed Academic Prose	3		
TOTAL	16	TOTAL	15

THIRD YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
BIOLOGY 441 Biochemistry	3	BIOLOGY 435 Immunology	3
BIOLOGY 313 Microbiology	3	BIOLOGY Major Elective (300/400 level)	3
BIOLOGY 313WL Laboratory in Microbiology	3	CHEM 341WI Analytical Chemistry I	4
BIOLOGY 316 Principles of Physiology	3	GECUE 201 Civic & Urban Engagement	3
GECDV 201 Culture & Diversity	3	HISTORY 101, 102, or POL-SCI 210	3
TOTAL	15	TOTAL	16

SUMMER

SUMMER SEMESTER	HOURS
Clinical Program at Affiliate Hospital	6
TOTAL	6

FOURTH YEAR

FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
Clinical Program at Affiliate Hospital	12	Clinical Program at Affiliate Hospital	12
TOTAL	12	TOTAL	12

Additional Graduation Requirements: Civics Exam, HEIghten Exit Exam.

Total Credits to Graduate: 122

School of Science and Engineering

Why Major in Biology



Beyond The Classroom

Students build experience by participating in our **student-led teams or organizations**:

- Biological Sciences Society
- SSE Student Government
- Student Environmental Coalition
- Women in Science

Discover opportunities in health care by joining our **Pre-Professional Societies** related to medicine, dentistry, pharmacy, veterinary medicine, optometry, and physician assistant.

Kansas City offers opportunities for students to **shadow various professionals** from wildlife experts to medical professionals in a multitude of specialties.

Prepare for your academic journey and meet your future classmates by participating in our one week **SSE Boot Camp**.

UMKC is one of the few universities to have a School of Medicine, School of Nursing, School of Pharmacy, and School of Dentistry on our campus.



Personalize Your Degree

Students can opt into **emphasis areas** such as:

• Bioinformatics, Biomedical Sciences, Biotechnology, or Clinical Laboratory Science

Students interested in health sciences are assigned a **pre-health advisor** to ensure they are meeting the requirements for their future goals.

Explore areas of biology through electives in Zoology, Evolution, Marine & Freshwater Biology, Infections Diseases, Histology, Virology, etc.

One credit **careers courses** introduce students to opportunities in industry, research, and prepare students to apply to professional medical programs.

Participate in **innovative and ground-breaking research** alongside faculty mentors:

- Explore sensory cell regeneration using zebrafish
- Join neuroscience research to examine the relationship between sleep and memory



After Graduation

SSE connects students with industry partners and professional programs in the area through two **STEM Career Fairs** each year.

Easily earn a **master's degree** through our BS to MS program which allows students to complete a graduate degree at undergraduate tuition rates.

The Kansas City area is home to nearly **300 life** science companies allowing for ease of access to internships and future employment.

Kansas City is renowned for its **strengths in bioscience and medical research**, including:

 comparative medicine, cardiology, neuroscience, pharmaceutical development, outcomes research, and oncology

The KC Animal Health Corridor is the **largest concentration of animal health companies** in the world.

