Minor. Biology

MINOR: BIOLOGY

Student Learning Outcomes

Students graduating from this program will:

- Identify fundamental concepts in the biological sciences, including the relationship between structure and function at all levels of biological organization, evolution and the role of natural selection in the process, ecological relationships between organisms and their environment.
- Describe cellular structure and explain the major biochemical processes that occur in cells.
- Describe and explain the mechanisms of heredity and the flow of genetic information.
- · Apply knowledge in basic mathematics, chemistry, and physics to solve biological problems.
- · Employ techniques and procedures commonly used in modern biology laboratories.
- · Analyze and critically evaluate scientific data.
- · Write clearly about topics in the biological sciences for a peer or professional audience.

Program Requirements

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Code	Title	Credits
BIOLOGY 108L	General Biology I Laboratory	4
& BIOLOGY 108	and General Biology I	
or MOTRBIOL 100LB	MOTR Essentials in Biology w/ Lab - Botany	
or MOTRBIOL 150LB	MOTR Biology with Lab	
BIOLOGY 109L	General Biology II Laboratory	4
& BIOLOGY 109	and General Biology II	
or MOTRBIOL 100LZ	MOTR Essentials in Biology with Lab	
or MOTRBIOL 150LZ	MOTR Biology w/Lab	
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
Select one of the following laboratory courses:		2-3
BIOLOGY 218L	Introductory Anatomy Laboratory	
or MOTRLIFS 100LA	MOTR Anatomy focused Essentials in Human Biology with Lab	
or MOTRLIFS 150LA	MOTR Anatomy focused Human Biology w/Lab	
BIOLOGY 302L	Ecology Laboratory	
BIOLOGY 312WL	Laboratory in Developmental Biology, Genetics and Cell Biology	
BIOLOGY 313L	Laboratory in Microbiology	
BIOLOGY 313WL	Laboratory in Microbiology	
BIOLOGY 360L	Laboratory in Biochemistry and Molecular Biology	
BIOLOGY 360WL	Laboratory in Biochemistry and Molecular Biology	
BIOLOGY 328L	Laboratory in Histology and Cellular Ultrastructure	
BIOLOGY 328WL	Laboratory in Histology and Cellular Ultrastructure	
BIOLOGY 338L	Comparative Vertebrate Anatomy Laboratory	
Upper-level Biology Majors Cou	rses ¹	7
Total Credits		23-24

The seven hours may include any of the upper-level lab courses listed above.

Total Biology hours:21

Standards that must be met for the minor.

- 1. Only grades of C- or better will be allowed to count toward fulfillment of the required 21 hours of biology coursework.
- 2. Students seeking a biology minor must have a minimum cumulative 2.0 UM biology GPA in courses used to fulfill the minor requirements.
- 3. At least 11 of the 21 required hours must be earned from BIOLOGY or LIFE-SCI coursework at UMKC.
- 4. At least 4 of the 7 hours of junior/senior level coursework must be earned from BIOLOGY or LIFE-SCI coursework at UMKC.