Bachelor of Science in Biology
Years 3 and 4 UMKC

Graduation Requirements
Credits
Computer proficiency or foreign language culture ² 3
MATH 220 Calculus II 4
Humanities elective (upper level) 6
Social science (upper level) 3
Upper level to meet 36 junior/senior 3
PHYS 240 Physics for Science and Engineering I 5
PHYS 250 Physics for Science and Engineering II 5
BIOL 202 Cell Biology 3
LSBIOC 341 Basic Biochemistry 3

Four of the following primary elective courses are required for a total of 11-12 credit hours.
LSPHYS 316 Principles of Physiology (3 Cr.)
BIOL 427 Plant Physiology (3 Cr.)
BIOL 302 General Ecology (3 Cr.)
LSMCRB 313 Introduction to Microbiology (3 Cr.)
BIOL 409 Developmental Biology (3 Cr.)
LSBIOC 430 Molecular Biology and Genetic Engineering (3 Cr.)
LSBIOL 360 Biochemistry (3 Cr.)
BIOL 328 Histology (2 Cr.)

Two of the following primary elective lab courses must be taken by all students in the B.S. degree program for a minimum of five credit hours.
LSBIOC 360WL Laboratory in Biochemistry and Molecular Biology (3 Cr.)
LSMCRB 313WL Laboratory in Microbiology (3 Cr.)

Two of the following primary elective lab courses must be taken by all students in the B.S. degree program for a minimum of five credit hours.
LSBIOL 360 Biochemistry (3 Cr.)
BIOL 328 Histology (2 Cr.)

Total Credits Required 120

Additional credit hours of biology course may be selected from the primary electives listed above or from a list of approved secondary electives to complete the total of 42 credits hours in biology, 26 of which must be junior/senior level. One of these elective courses must fulfill the General Education Synthesis requirement and one must be a writing intensive course.

² Two semesters of a single foreign language and a foreign language culture course if not exempt based on high school course work. Two years of high school foreign language may exempt two semesters college course work; a third year in high school exempts the foreign language culture courses. A grade of B or better in high school computer course exempts the computer proficiency requirement. Exemptions require submission of high school transcripts.