



**KENTUCKY STATE
UNIVERSITY**

BIOLOGY BACHELOR OF SCIENCE - BIOTECHNOLOGY TRACK

Major in Biology

The Bachelor of Science in Biology at Kentucky State University offers a curriculum that prepares students for post-baccalaureate programs and many possible career fields including medicine, pharmacy, physical therapy, dental, education, veterinary medicine, environmental science, and other related areas. Incoming students who desire to pursue a biology degree should work with their advisor and the biology faculty members to ensure that they are selecting electives that will meet their desired career goals. For more information students can contact Dr. Marcus Bernard, chair of the School of Agriculture, Community, Environment and the Sciences at Natural.Sciences@kysu.edu or (502) 597-6603.

Students who major in Biology must complete a minimum of 120 semester credit hours, including the University's Liberal Studies Requirements. See the Race Tracks, below, for specific recommended curriculum plans.

Biology majors must earn a C or better in all core, elective, and support courses.

Biology core course requirements:

Code	Title	Hours
BIO 111	Principles of Biology	4
BIO 115/116	Freshman Seminar	1
BIO 210	General Zoology	3
BIO 212	General Botany	3
BIO 302	General Microbiology	4
BIO 303	Human Physiology	4
BIO 307	Genetics	4
BIO 316	Ecology	4
BIO 401	Biology Seminar	1
BIO 408	Cell Biology	4
BIO 410	Special Problems Biology	2

Biology electives include: any biology course at the 300- or 400-level that is not required for the major and BIO 410 Special Problems Biology after it has been taken once to fulfill the major requirement. Biology electives also include CHE 315 Biochemistry/CHE 350 Biochemistry Laboratory, AQU 300/400 level courses (except AQU 425 Aquaculture Econ/Marketing). Additional elective courses may be approved by the Biology Committee.

Bachelor of Science in Biology Biotechnology Track

Course	Title	Hours
Term 1 (Fall)		
MAT 131	Calculus/Analy Geom I	5
CHE 101	General Chemistry I	3
CHE 110	General Chem I Laboratory	1
ENG 101	English Comp I	4
KSU 118	Intro. to University Learning	3
Hours		16
Term 2 (Spring)		
BIO 111	Principles of Biology	4
BIO 116	Intro to Biotechnology	1
CHE 102	General Chemistry II	3
CHE 120	General Chemistry II Lab	1
ENG 102	English Comp II	3
COM 103	Interpersonal Communication	3
KSU 186	Navigate. the Tech. World	3
Hours		18
Term 3 (Fall)		
BIO 212	General Botany	3
CHE 301	Organic Chemistry I	3
CHE 310	Organic Chemistry I Lab.	1
Arts & Humanities Requirement		3
PHY 207	Physics In Biological Sci I	4
300/400 Statistics		3
Hours		17
Term 4 (Spring)		
BIO 210	General Zoology	3
CHE 302	Organic Chemistry II	3
CHE 320	Organic Chemistry II Lab	1
BIO 302	General Microbiology	4
PHY 208	Physics In Biological Sci II	4
Hours		15
Term 5 (Fall)		
BIO 316	Ecology	4
BIO 307	Genetics	4
BIO 431	Biotechnology I	4
Social/Behavioral Science Req		3
Hours		15
Term 6 (Spring)		
BIO 303	Human Physiology	4
BIO 432	Biotechnology II	4
Social/Behavioral Science Req		3
BIO 300/400 Elective		3
Hours		14
Term 7 (Fall)		
BIO 408	Cell Biology	4
BIO 410	Special Problems Biology	2
Arts & Humanities Requirement		3
BIO 438	Forensics	3
Hours		12
Term 8 (Spring)		
BIO 401	Biology Seminar	1
BIO 300/400 Elective		3
Free Elective/Minor		3
Free Elective/Minor		3

2 Biology Bachelor of Science - Biotechnology Track

Arts & Humanities Requirement	3
Hours	13
Total Hours	120