

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS BIOLOGY**

Option: **BOTANY**

Major Field Requirements: **45.0 credits credits**

Other Requirements: **35.0 - 37.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Q.P.	Course No.	Short Title	C.H.	Grade	Q.P.
REQUIRED BIOLOGY COURSES (25.0 credits)					Biology Electives				
BIOL 211	Concepts of Zoology	4.0	_____	_____	In consultation with your adviser, choose additional biology courses to bring total biology courses to 45.0 credits.				
BIOL 221	Concepts of Botany	4.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 263	Cell Biology	4.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 325	Plant Systematics	3.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 365	Genetics	3.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 427	Develop. Plant Anat.	3.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 436	Plant Physiology	3.0	_____	_____	BIOL _____	_____	_____	_____	_____
BIOL 472	Seminar in Biology	1.0	_____	_____	BIOL _____	_____	_____	_____	_____
<p>* Note: Competency in Biology must be demonstrated before registering for a 200 level Biology course. See competency guidelines on front of sheet.</p>					<p>Note: Those planning to apply to graduate or professional school should inquire about specific admissions requirements for the program of their choice.</p>				
OTHER BIOLOGY COURSES (20.0 credits)					REQUIRED RELATED (35.0 - 37.0 credits)				
Cellular & Molecular (3.0 - 4.0 credits)					Chemistry (20.0 credits)				
BIOL 360	Histology	4.0	_____	_____	CHEM 111	Intro to Chem I	4.0	_____	_____
BIOL 461	General Microbiology	3.0	_____	_____	CHEM 112	Intro to Chem II	4.0	_____	_____
BIOL 462	Molecular Biology	4.0	_____	_____	CHEM 231*	Organic Chem I	4.0	_____	_____
BIOL 463	Virology	4.0	_____	_____	CHEM 232	Organic Chem II	4.0	_____	_____
BIOL 465	Developmental Bio.	3.0	_____	_____	CHEM 326	Biochemistry I	4.0	_____	_____
BIOL 467	Human Genetics	3.0	_____	_____	<p>Note: Those wishing to complete a Chemistry Minor must complete CHEM 265 (Quantitative Analysis) in addition to those Chemistry courses listed above.</p> <p>* Must earn a C- or higher in CHEM 231 before completing CHEM 232</p>				
Plants (3.0 - 4.0 credits)					Mathematics & Computer Science (7.0 credits)				
BIOL 327	Horticultural Science	3.0	_____	_____	MATH 161	Calculus I	4.0	_____	_____
BIOL 326	Lower Plants	3.0	_____	_____	MATH*	_____	3.0	_____	_____
BIOL 424	Mycology	3.0	_____	_____	----- or -----				
BIOL 428	Plant Morphogenesis	3.0	_____	_____	CSCI**	_____	3.0	_____	_____
BIOL 525	Plant Evolution	4.0	_____	_____	<p>* Numbered 160 or above, except MATH 155 and MATH 156.</p> <p>**Numbered CSCI 140 or above.</p>				
Animals (3.0 - 4.0 credits)					Physics (8.0 - 10.0 credits)				
BIOL 256	Nutrition	3.0	_____	_____	PHYS 131	Physics I with Algebra	4.0	_____	_____
BIOL 316	Invertebrate Zoology	3.0	_____	_____	PHYS 132	Physics II with Algebra	4.0	_____	_____
BIOL 318	Comp. Vert. Anat.	4.0	_____	_____	----- or -----				
BIOL 346	Ornithology	3.0	_____	_____	PHYS 231	Phys I with Calculus	5.0	_____	_____
BIOL 396	Marine Ichthyology	3.0	_____	_____	PHYS 232	Phys II with Calculus	5.0	_____	_____
BIOL 415	Mammalogy	3.0	_____	_____	General Electives (as necessary)				
BIOL 416	Entomology	3.0	_____	_____	_____	_____	_____	_____	_____
BIOL 435	Animal Physiology	3.0	_____	_____	_____	_____	_____	_____	_____
BIOL 437	Endocrinology	3.0	_____	_____	_____	_____	_____	_____	_____
BIOL 438	Neurobiology	3.0	_____	_____	_____	_____	_____	_____	_____
BIOL 485	Animal Behavior	3.0	_____	_____	_____	_____	_____	_____	_____
Population Biology (6.0 - 8.0 credits)					_____				
BIOL 241	Principles of Ecology	3.0	_____	_____	_____				
BIOL 291	Marine Biology	4.0	_____	_____	_____				
BIOL 296	Marine Ecology	3.0	_____	_____	_____				
BIOL 443	Conservation Biology	3.0	_____	_____	_____				
BIOL 445	Aquatic Biology	3.0	_____	_____	_____				
BIOL 449	Plant Communities	4.0	_____	_____	_____				
BIOL 487	Evolution	3.0	_____	_____	_____				
BIOL 495	Biological Ocean.	3.0	_____	_____	_____				