

## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS BIOLOGY**

Option: **MOLECULAR/BIO TECHNOLOGY**

Major Field Requirements: **39.0 credits**

Other Requirements: **39.0-43.0 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.
<b>REQUIRED BIOLOGY COURSES (24.0 credits)</b>					<b>REQUIRED RELATED (39.0-43.0 credits)</b>				
BIOL 101	Foundations of BIOL	4.0	_____	_____	Note: Courses that do not count for majors in the School of Science and Mathematics may not be used as required related courses.				
BIOL 211	Concepts of Zoology	4.0	_____	_____	<b>Chemistry (24.0 credits)</b>				
BIOL 221	Concepts of Botany	4.0	_____	_____	CHEM 111	Intro to Chem I	4.0	_____	_____
BIOL 343	Ecology & Evolution	4.0	_____	_____	CHEM 112	Intro to Chem II	4.0	_____	_____
BIOL 362	Cell & Development	4.0	_____	_____	CHEM 231*	Organic Chem I	4.0	_____	_____
BIOL 364	Genetics & Mole BIOL	4.0	_____	_____	CHEM 232	Organic Chem II	4.0	_____	_____
<b>REQUIRED MOL/BIOLTECH COURSES (8-9 credits)</b>					CHEM 326	Biochemistry I	4.0	_____	_____
BIOL 462	Molecular BIOL	4.0	_____	_____	CHEM 327	Biochemistry II	4.0	_____	_____
BIOL 466	Mole/Cell Technqs	3.0	_____	_____	NOTE: A student may complete a biochemistry minor by completing CHEM 328 (Analytical Biochemistry Laboratory) in addition to all the above chemistry courses OR a student may complete a Chemistry minor by completing CHEM 265 (Quantitative Analysis) in addition to CHEM 111, 112, 231 and 232.				
BIOL 472	Seminar (MOL)	1.0-2.0	_____	_____	*Must earn a C- or higher in CHEM 231 before completing CHEM 232.				
<b>BIOL ELECTIVES (6-7 credits)</b>					<b>Mathematics &amp; Computer Science (7.0 - 9.0 credits)</b>				
In consultation with your advisor, choose additional courses at the 300-level or higher and approved for BIOL majors to bring total BIOL credits to 39. The following courses are recommended.					MATH 161	Calculus I	4.0	_____	_____
BIOL 463	Virology	4.0	_____	_____	----- or -----				
BIOL 465	Developmental BIOL	3.0	_____	_____	MATH 163	Honors Calculus	5.0	_____	_____
BIOL 467	Human Genetics	3.0	_____	_____	----- <b>AND</b> -----				
BIOL _____	_____	_____	_____	_____	MATH*	_____	_____	_____	_____
BIOL _____	_____	_____	_____	_____	----- or -----				
					CSCI**	_____	_____	_____	_____
					*Note: Only MATH courses numbered 160 or above may be used to fulfill these requirements.				
					**Numbered CSCI 140 or above.				
					<b>Physics (8.0 - 10.0 credits)</b>				
					PHYS 131	Physics I with Algebra	4.0	_____	_____
					PHYS 132	Physics II with Algebra	4.0	_____	_____
					----- or -----				
					PHYS 231	Phys I with Calculus	5.0	_____	_____
					PHYS 232	Phys II with Calculus	5.0	_____	_____