

YEAR TERM		BIOLOGY/CHEMISTRY			ELECTIVES		MATH/PHYSICS		CORE			TOTAL CREDITS
YEAR 1	FALL	<b>BIOL 110</b> 4 GENERAL BIOLOGY I		<b>CHEM 110</b> 4 GENERAL CHEMISTRY I Co-Req: MATH 135, TMAT 135 or higher			<b>MATH 141**</b> 4 PRECALCULUS Pre-Req: Placement Exam or MATH 101		<b>FCWR 101*</b> 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100		15	
	SPRING	<b>BIOL 150</b> 4 GENERAL BIOLOGY II Pre-Req: BIOL 110		<b>CHEM 150</b> 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110			<b>MATH 170</b> 4 CALCULUS I Pre-Req: Placement Exam, MATH 141, MATH 136 or TMAT 155		<b>FCWR 151*</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101		15	
YEAR 2	FALL	<b>BIOL 220</b> 4 COMPARATIVE ANATOMY Pre-Req: BIOL 150 FALL ONLY		<b>CHEM 210</b> 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150			<b>MATH 180</b> 4 CALCULUS II Pre-Req: MATH 170		<b>FCIQ 101</b> 3 FOUNDATIONS OF INQUIRY		15	
	SPRING	<b>BIOL 311</b> 4 COMPARATIVE ANIMAL PHYSIOLOGY Pre-Req: BIOL 220 SPRING ONLY	<b>BIOL 235</b> 4 MICROBIOLOGY Pre-Req: BIOL 150	<b>CHEM 250</b> 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210					<b>FCSC 101</b> 3 FOUNDATIONS OF SCIENTIFIC PROCESS		15	
YEAR 3	FALL	<b>BIOL 335</b> 4 GENETICS Pre-Req: BIOL 110 FALL ONLY in OW SPRING ONLY in MA			<b>SCIENCE 3 ELECTIVE****</b> (3 or 4 credits) Recommend BIOL 336	<b>GENERAL ELECTIVE</b> 3	<b>PHYS 170 OR PHYS 175</b> 4/5 PHYSICS REQUIREMENT Co-Req: MATH 170		<b>FCSP 105</b> 3 FOUNDATIONS OF SPEECH COMMUNICATION		17	
	SPRING	<b>BIOL 340</b> 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 250 SPRING or FALL	<b>BIOL 395</b> 3 INTRO TO RESEARCH DESIGN Pre-Req: Any 300 level BIOL or CHEM course				<b>PHYS 180 OR PHYS 185</b> 4/5 PHYSICS REQUIREMENT Pre-Req: PHYS 170 or PHYS 175 Co-Req: MATH 180		<b>FCWR 304 or FCWR 302</b> 3 COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151	<b>ICBS 3XX****</b> 3 BEHAVIORAL SCIENCE CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105	17	
YEAR 4	FALL		<b>SCIENCE ELECTIVE****</b> 4	<b>BIOL 431</b> 4 CELL BIOLOGY Co-Req: BIOL 340 FALL in MA SPRING in OW		<b>GENERAL ELECTIVE</b> 3		<b>ICLT 3XX***</b> 3 LITERATURE CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105	<b>ICPH 3XX***</b> 3 PHILOSOPHY CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105		17	
	SPRING	<b>BIOL 435</b> 3 EVOLUTIONARY BIOLOGY Pre-Req: BIOL 311	<b>SCIENCE ELECTIVE****</b> 4	<b>SCIENCE ELECTIVE****</b> 3 (3 or 4 credits) SPRING or FALL		<b>GENERAL ELECTIVE</b> 3		<b>ICSS 3XX***</b> 3 SOCIAL SCIENCES CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, FCSP 105			16	

**CREDITS** **127-129**

Science Elective Options	Credits	Pre-Requisites	Science Elective Options	Credits	Pre-Requisites	Science Elective Options	Credits	Pre-Requisites
<b>BIOL 336 Molecular Biology (Required)</b> Fall only in OW	4	BIOL 110 recommended co-req: BIOL 335)	<b>BIOL 346 Immunology</b>	3	BIOL 310 or BIOL 311	<b>BIOL 493 Independent Research III</b>	4	BIOL 395
<b>BIOL 331 Virology</b>	3	BIOL 150	<b>BIOL 456 Pharmacology</b>	3	BIOL 310 or BIOL 311	<b>BIOL 494 Independent Research IV</b>	4	BIOL 395
<b>BIOL 341 Genetic Engineering</b>	3	Co-Requisite: BIOL 335	<b>BIOL 461 Cancer Biology</b>	3	BIOL 335 and BIOL 431	<b>BIOL 450 Bioinformatics &amp; Functional Genomics</b>	3	BIOL 335 and BIOL 341

\*Non-native English speakers take FCWR 111 instead of FCWR 101, and FCWR 161 instead of FCWR 151.  
 \*\* Some students must take both MATH 135 & MATH 136. These two courses are the equivalent of MATH 141.  
 \*\*\*\*To fulfill the Molecular Biology Concentration, students must take BIOL 336 and select an additional 10 credits from the list above.

(Rev. 06/18)