

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 ELECTIVE****</b> 3 (3 or 4 credits)	<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	17	
YEAR 4	FALL		<b>SCIENCE ELECTIVE****</b> 4  (Dept. recommends BIOL 493)	<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	<b>ICPH 3XX****</b> 3 PHILOSOPHY CHOICE	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		16	

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

Science Elective Options (credits)	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury
<b>BIOL 210</b> HUMAN GROSS ANATOMY (4)	SPRING ONLY	FALL and SPRING	<b>BIOL 315</b> NEUROSCIENCE (3)	AS NEEDED	SPRING ONLY	<b>BIOL 346</b> IMMUNOLOGY (3)	AS NEEDED	AS NEEDED
<b>BIOL 310</b> HUMAN PHYSIOLOGY (4)	FALL ONLY	FALL and SPRING	<b>BIOL 331</b> VIROLOGY (3)	AS NEEDED	AS NEEDED	<b>BIOL 461</b> CANCER BIOLOGY (3)	AS NEEDED	SPRING ONLY
<b>BIOL 241</b> DEVELOPMENTAL BIOLOGY (4)	AS NEEDED	SPRING ONLY	<b>BIOL 336</b> MOLECULAR BIOLOGY (4)	AS NEEDED	FALL ONLY	<b>BIOL 456</b> PHARMACOLOGY (3)	-	FALL and SPRING
<b>BIOL 312</b> PATHOPHYSIOLOGY (3)	AS NEEDED	SPRING ONLY	<b>BIOL 341</b> GENETIC ENGINEERING (3)	SPRING ONLY	FALL ONLY	<b>CHEM 420</b> PHARMACEUTICAL CHEMISTRY (3)	SPRING ONLY	SPRING ONLY

\*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.  
 \*\*\*Seminar pre-requisites include: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105.  
 \*\*\*\* Science Electives may be taken at 3 or 4 credits. This map pre-selected a number of credits for these courses for the purpose of the sample only.  
Course names, numbers and/or pre-requisites subject to change.  
(Rev. 05/18)