

YEAR TERM		BIOLOGY/CHEMISTRY			MANAGEMENT/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 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		<b>FCWR 151*</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101	<b>FCIQ 101</b> 3 FOUNDATIONS OF INQUIRY		18
YEAR 2	FALL	<b>BIOL 233</b> 4 GENETICS Pre-Req: BIOL 150 and CHEM 150 NYC – Spring Only	<b>BIOL 250</b> 3 BIOSTATISTICS Pre-Req: BIOL 110 & MATH 170	<b>CHEM 210</b> 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150			<b>PHYS 175</b> 5 PRE-MED PHYSICS I Co-Req: MATH 170					16
	SPRING	<b>BIOL 350</b> 3 BIOINFORMATICS Pre-Req BIOL 233 and BIOL 250	<b>BIOL 238</b> 3 INTRO. TO BIOTECH Pre-Req: BIOL 150	<b>CHEM 250</b> 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210			<b>PHYS 185</b> 5 PRE-MED PHYSICS II Pre-Req: PHYS 175		<b>FCSP 105</b> 3 FOUNDATIONS OF SPEECH COMMUNICATION			18
YEAR 3	FALL	<b>BIOL 235</b> 4 MICROBIOLOGY Pre-Req: BIOL 150	<b>BIOL 340</b> 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 210	<b>BIOL 336</b> 3 MOLECULAR BIOLOGY					<b>ICBS 3XX***</b> 3 BEHAVIORAL SCIENCE CHOICE	<b>FCWR 304 or FCWR 302</b> 3 COMMUNICATION FOR TECH. PROF. OR HEALTHCARE CAREERS Pre-Req: FCWR 151		17
	SPRING	<b>BIOL 432</b> 3 CELL BIOLOGY NYC – Fall Only	<b>BIOL 395</b> 3 INTRODUCTION TO RESEARCH LITERATURE Pre-Req: Any 300 level BIOL or CHEM course						<b>ICSS 3XX***</b> 3 SOCIAL SCIENCES CHOICE	<b>ICPH 3XX***</b> 3 PHILOSOPHY CHOICE		12
YEAR 4	FALL	<b>BIOL 341</b> 3 GENETIC ENGINEERING Co-Req: BIOL 233	<b>CHEM 420</b> 3 PHARMACEUTICAL CHEMISTRY Pre-Req: BIOL 340	<b>BIOL /CHEM 48X</b> 3/4 <b>BIOL 493 or BIOL 494</b> RESEARCH PROJECT LAB or INDEPENDENT RESEARCH III or INDEPENDENT RESEARCH IV	<b>GENERAL ELECTIVE</b> 3				<b>ICLT 3XX***</b> 3 LITERATURE CHOICE			15/16
	SPRING	<b>BIOL 442</b> 3 BIOPROCESSING Pre-Req: BIOL 340 and BIOL 341 SPRING ONLY	<b>CHEM 440</b> 3 DRUG DISCOVERY Pre-Req: CHEM 420 or BIOL 456	<b>SCIENCE ELECTIVE</b> 3	<b>SCIENCE ELECTIVE</b> 3	<b>GENERAL ELECTIVE</b> 3						15

**CREDITS** **126**

Science Elective Options (credits)	Manhattan	Old Westbury	Science Elective Options (credits)	Manhattan	Old Westbury
<b>BIOL 210</b> HUMAN GROSS ANATOMY (4)	SPRING ONLY	FALL and SPRING	<b>BIOL 331</b> VIROLOGY (3)	SPRING ONLY	SPRING ONLY
<b>BIOL 310</b> HUMAN PHYSIOLOGY (4)	FALL ONLY	FALL and SPRING	<b>BIOL 336</b> MOLECULAR BIOLOGY (4)	AS NEEDED	AS NEEDED
<b>BIOL 241</b> DEVELOPMENTAL BIOLOGY (4)	AS NEEDED	SPRING ONLY	<b>BIOL 346</b> IMMUNOLOGY (3)	AS NEEDED	AS NEEDED
<b>BIOL 312</b> PATHOPHYSIOLOGY (3)	AS NEEDED	SPRING ONLY	<b>BIOL 461</b> CANCER BIOLOGY (3)	AS NEEDED	FALL ONLY
<b>BIOL 315</b> NEUROSCIENCE (3)	FALL ONLY	SPRING ONLY	<b>BIOL 456</b> PHARMACOLOGY (3)	-	FALL and SPRING
			<b>CHEM 470</b> INORGANIC CHEMISTRY (3)	FALL ONLY	FALL ONLY

\*Non-native English speakers take FCWR 111 instead of FCWR 101, and FCWR 161 instead of FCWR 151. Course names, numbers and/or pre-requisites are subject to change

\*\* Some students must take both MATH 135 and MATH 136. Both courses are the equivalent of MATH 141.

\*\*\*Seminar pre-requisites include: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105.

**Science Electives must be a 200 level or higher courses. In addition, BIOL 215 or CHEM 215 are not acceptable science electives.**