

YEAR TERM	BIOLOGY MAJOR COURSES					GENERAL EDUCATION			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: Requires Placement	<b>FCWR 101/111</b> 3 FOUND. OF COLLEGE COMPOSITION Pre-Req: Requires Placement		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>DATA 101</b> 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY		15
YEAR 2	FALL	<b>BIOL 210</b> 4 HUMAN ANATOMY Pre-Req: BIOL 150	<b>BIOL 250</b> 3 BIOSTATISTICS Pre-Req: BIOL 110 & MATH 170	<b>BIOL 233</b> 4 GENETICS Pre-Req: BIOL 150 & CHEM 150	<b>CHEM 210</b> 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150				15
	SPRING	<b>BIOL 310</b> 4 HUMAN PHYSIOLOGY Pre-Req: BIOL 210	<b>BIOL 235</b> 4 MICROBIOLOGY Pre-Req: BIOL 150		<b>CHEM 250</b> 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210		<b>FCWR 151/161</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111		15
YEAR 3	FALL	<b>BIOL 340</b> 4 BIOCHEMISTRY Pre-Req: BIOL 150 & CHEM 210	<b>BIOL 325</b> 3 EVOLUTIONARY BIOLOGY Pre-Req: BIOL 235 & BIOL 233			<b>PHYS 175</b> 5 PRE-MED PHYSICS I Co-Req: MATH 170	<b>GENERAL ELECTIVE</b> 3		15
	SPRING	<b>BIOL 432</b> 3 CELL BIOLOGY Pre-Req: BIOL 340	<b>BIOL 395</b> 3 INTRO TO RESEARCH LITERATURE Pre-Req: Any 300 level BIOL or CHEM course			<b>PHYS 185</b> 5 PRE-MED PHYSICS II Pre-Req: PHYS 170 or PHYS 175	<b>FCWR 304 or FCWR 302</b> 3 COMM. FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151/161	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 101/111 and FCWR 151/161	17
YEAR 4	FALL	<b>BIOL /CHEM 48X 3/4</b> <b>BIOL 493 or BIOL 494</b> RESEARCH PROJECT LAB or INDEPENDENT RESEARCH III or INDEPENDENT RESEARCH IV	<b>SCIENCE ELECTIVE***</b> 3		<b>GENERAL ELECTIVE</b> 3		<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 101/111 and FCWR 151/161	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 101/111 and FCWR 151/161	15
	SPRING	<b>SCIENCE ELECTIVE***</b> 3	<b>SCIENCE ELECTIVE***</b> 3		<b>GENERAL ELECTIVE</b> 3	<b>GENERAL ELECTIVE</b> 3	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 101/111 and FCWR 151/161		15

**CREDITS** 122

Science Elective Options (credits)	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury
<b>BIOL 312</b> PATHOPHYSIOLOGY (3)	AS NEEDED	SPRING ONLY	<b>BIOL 332</b> DEVELOPMENTAL BIOLOGY (4)	AS NEEDED	SPRING ONLY	<b>BIOL 456</b> PHARMACOLOGY (3)	AS NEEDED	FALL and SPRING
<b>BIOL 315</b> NEUROSCIENCE (3)	AS NEEDED	SPRING ONLY	<b>BIOL 336</b> MOLECULAR BIO (3)	AS NEEDED	FALL ONLY	<b>BIOL 461</b> CANCER BIOLOGY (3)	AS NEEDED	SPRING ONLY
<b>BIOL 331</b> VIROLOGY (3)	AS NEEDED	AS NEEDED	<b>BIOL 341</b> GENETIC ENGINEERING (3)	SPRING ONLY	FALL ONLY	<b>CHEM 420</b> PHARMACEUTICAL CHEMISTRY (3)	SPRING ONLY	SPRING ONLY

\*Of the four required ICXX seminar courses (ICBS, ICLT, ICPH, ICSS), at least three must be in different subject areas.  
 \*\* Some students must take both MATH 135 & MATH 136. These two courses are the equivalent of MATH 141.  
 \*\*\*Science Electives must be a 200 level or higher courses. In addition, BIOL 215 or CHEM 215 are **NOT** acceptable science electives.  
 Course names, numbers and/or pre-requisites subject to change (Rev. 3/23)