

YEAR TERM		BIOLOGY/CHEMISTRY			ELECTIVES		MATH/PHYSICS		CORE			TOTAL CREDITS
YEAR 1	FALL	BIOL 110 4 GENERAL BIOLOGY I		CHEM 110 4 GENERAL CHEMISTRY I Co-Req: MATH 135, TMAT 135 or higher			MATH 141** 4 PRECALCULUS Pre-Req: Placement Exam or MATH 101		FCWR 101* 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100		15	
	SPRING	BIOL 150 4 GENERAL BIOLOGY II Pre-Req: BIOL 110		CHEM 150 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110			MATH 170 4 CALCULUS I Pre-Req: Placement Exam, MATH 141, MATH 136 or TMAT 155		FCWR 151* 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101		15	
YEAR 2	FALL	BIOL 220 4 COMPARATIVE ANATOMY Pre-Req: BIOL 150 FALL ONLY		CHEM 210 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150			MATH 180 4 CALCULUS II Pre-Req: MATH 170		FCIQ 101 3 FOUNDATIONS OF INQUIRY		15	
	SPRING	BIOL 311 4 COMPARATIVE ANIMAL PHYSIOLOGY Pre-Req: BIOL 220 SPRING ONLY	BIOL 235 4 MICROBIOLOGY Pre-Req: BIOL 150	CHEM 250 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210					FCSC 101 3 FOUNDATIONS OF SCIENTIFIC PROCESS		15	
YEAR 3	FALL	BIOL 335 4 GENETICS Pre-Req: BIOL 150 & CHEM 150 LI: Fall, NYC: Spring			SCIENCE ELECTIVE**** 3 (3 or 4 credits)	GENERAL ELECTIVE 3	PHYS 170 OR PHYS 175 4/5 PHYSICS REQUIREMENT Co-Req: MATH 170		FCSP 105 3 FOUNDATIONS OF SPEECH COMMUNICATION		17/18	
	SPRING	BIOL 340 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 210 SPRING or FALL	BIOL 395 3 INTRO TO RESEARCH DESIGN Pre-Req: Any 300 level BIOL or CHEM course				PHYS 180 OR PHYS 185 4/5 PHYSICS REQUIREMENT Pre-Req: PHYS 170 or PHYS 175 Co-Req: MATH 180		FCWR 304 or FCWR 302 3 COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151	ICBS 3XX 3 BEHAVIORAL SCIENCE CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, & FCSP 105	17/18	
YEAR 4	FALL		SCIENCE ELECTIVE**** 4 (Dept. recommends BIOL 493)	BIOL 431 4 CELL BIOLOGY Co-Req: BIOL 340 FALL in MA SPRING in OW		GENERAL ELECTIVE 3		ICLT 3XX 3 LITERATURE CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, & FCSP 105	ICPH 3XX 3 PHILOSOPHY CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, & FCSP 105		17	
	SPRING	BIOL 435 3 EVOLUTIONARY BIOLOGY Pre-Req: BIOL 311	SCIENCE ELECTIVE**** 4	SCIENCE ELECTIVE**** 3 (3 or 4 credits) SPRING or FALL		GENERAL ELECTIVE 3		ICSS 3XX 3 SOCIAL SCIENCES CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, & FCSP 105			16	

CREDITS **127-129**

Science Elective Options (credits)	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury	Science Elective Options	Manhattan	Old Westbury
BIOL 210 HUMAN GROSS ANATOMY (4)	SPRING ONLY	FALL and SPRING	BIOL 315 NEUROSCIENCE (3)	AS NEEDED	SPRING ONLY	BIOL 456 PHARMACOLOGY (3)	AS NEEDED	FALL and SPRING
BIOL 310 HUMAN PHYSIOLOGY (4)	FALL ONLY	FALL and SPRING	BIOL 331 VIROLOGY (3)	AS NEEDED	AS NEEDED	BIOL 461 CANCER BIOLOGY (3)	AS NEEDED	SPRING ONLY
BIOL 241 DEVELOPMENTAL BIOLOGY (4)	AS NEEDED	SPRING ONLY	BIOL 336 MOLECULAR BIO (4)	AS NEEDED	FALL ONLY	BIOL 456 PHARMACOLOGY (3)	-	FALL and SPRING
BIOL 312 PATHOPHYSIOLOGY (3)	AS NEEDED	SPRING ONLY	BIOL 341 GENETIC ENGINEERING (3)	SPRING ONLY	FALL ONLY	CHEM 420 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.
 *** 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. 5/19)