

YEAR TERM		BIOLOGY/CHEMISTRY			MANAGEMENT/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 161 3 BASIC APPLIED CALCULUS Pre-Req: Placement Exam, MATH 141, MATH 136 or TMAT 155		FCWR 151* 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101	FCSC 101 3 FOUNDATIONS OF SCIENTIFIC PROCESS	17
YEAR 2	FALL	BIOL 235 4 MICROBIOLOGY Pre-Req: BIOL 150		CHEM 210 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150			PHYS 140/141 4 PHYSICS FOR LIFE SCIENCES I/LAB Pre-Req: MATH 141, MATH 136 or TMAT 155		FCIQ 101 3 FOUNDATIONS OF INQUIRY		15
	SPRING	BIOL 331 3 VIROLOGY Pre-Req: BIOL 150		CHEM 250 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210		GENERAL ELECTIVE 3	PHYS 160/161 4 PHYSICS FOR LIFE SCIENCES II/LAB Pre-Req: PHYS 140/141		FCSP 105 3 FOUNDATIONS OF SPEECH COMMUNICATION		17
YEAR 3	FALL	BIOL 335 4 GENETICS Pre-Req: BIOL 150 and CHEM 150	BIOL 340 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 210	BIOL 341 3 GENETIC ENGINEERING Co-Req: BIOL 335					ICBS 3XX*** 3 BEHAVIORAL SCIENCE CHOICE	FCWR 304 or FCWR 302 3 COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151	17
	SPRING	BIOL 355 3 RECOMBINANT DNA LAB Pre-Req: BIOL 340 and BIOL 341	BIOL 395 3 INTRODUCTION TO RESEARCH DESIGN Pre-Req: Any 300 level BIOL or CHEM course	BIOL 441 3 CONTEMPORARY BIOTECHNOLOGY Pre-Req: BIOL 341 SPRING in OW FALL in MA	MRKT 102 3 INTRODUCTION to MARKETING --- OR --- SBES 420 ENTREPRENEURIAL TECH/ INNOVATION MGMT				ICSS 3XX*** 3 SOCIAL SCIENCES CHOICE		15
YEAR 4	FALL	BIOL 431 4 CELL BIOLOGY Co-Req: BIOL 340	BIOL 493 4 INDEPENDENT RESEARCH III Pre-Req: BIOL 395	CHEM 320 3 ENVIRONMENTAL CHEMISTRY Pre-Req: CHEM 250					ICLT 3XX*** 3 LITERATURE CHOICE	ICPH 3XX*** 3 PHILOSOPHY CHOICE	17
	SPRING	BIOL 442 3 BIOPROCESSING Pre-Req: BIOL 340 and BIOL 341 SPRING ONLY	BIOL 494 4 INDEPENDENT RESEARCH IV Pre-Req: BIOL 395	CHEM 420 3 PHARMACEUTICAL CHEMISTRY Pre-Req: BIOL 340	SCIENCE ELECTIVE 3 (3 or 4 credits)	GENERAL ELECTIVE 3					16

CREDITS **129-131**

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