

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 3 ELECTIVE**** (3 or 4 credits) Recommend BIOL 336	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, and FCSP 105	17/18
YEAR 4	FALL		SCIENCE ELECTIVE**** 4	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, and FCSP 105	ICPH 3XX 3 PHILOSOPHY CHOICE Pre-Req: FCWR 151, FCIQ 101, FCSC 101, and 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	Pre-Requisites	Science Elective Options	Credits	Pre-Requisites	Science Elective Options	Credits	Pre-Requisites
BIOL 336 Molecular Biology (Required) Fall only in OW	4	BIOL 110 recommended co-req: BIOL 335)	BIOL 346 Immunology	3	BIOL 310 or BIOL 311	BIOL 493 Independent Research III	4	BIOL 395
BIOL 331 Virology	3	BIOL 150	BIOL 456 Pharmacology	3	BIOL 310 or BIOL 311	BIOL 494 Independent Research IV	4	BIOL 395
BIOL 341 Genetic Engineering	3	Co-Requisite: BIOL 335	BIOL 461 Cancer Biology	3	BIOL 335 and BIOL 431	BIOL 450 Bioinformatics & Functional Genomics	3	BIOL 335 and BIOL 341

*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.
 ***To fulfill the Molecular Biology Concentration, students must take BIOL 336 and select an additional 10 credits from the list above.
(Rev. 05/19)