

YEAR TERM		CHEMISTRY/BIOLOGY			GENERAL ELECTIVES	MATH/PHYSICS		GENERAL EDUCATION			TOTAL CREDITS
YEAR 1	FALL	CHEM 110 4 GENERAL CHEMISTRY I Co-Req: MATH 135 or higher	BIOL 110 4 GENERAL BIOLOGY I			MATH 141** 4 PRECALCULUS Pre-Req: Placement Exam or MATH 101		FCWR 101/111 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement			15
	SPRING	CHEM 150 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110				MATH 170 4 CALCULUS I Pre-Req: Placement Exam, MATH 141 or MATH 136		FCWR 151/161 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111	DATA 101 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY		14
YEAR 2	FALL	CHEM 210 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150				MATH 180 4 CALCULUS II Pre-Req: MATH 170	PHYS 170/175 4/5 PHYSICS REQUIREMENT Co-Req: MATH 170	GENERAL ELECTIVE 3			15/16
	SPRING	CHEM 250 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210	SCIENCE ELECTIVE 3 (3 or 4 credits)			MATH 235 3 APPLIED STATISTICS Pre-Req: MATH 170 --- OR --- MATH 310 3 LINEAR ALGEBRA Pre-Req: MATH 180	PHYS 180/185 4/5 PHYSICS REQUIREMENT Pre-Req: PHYS 170 or PHYS 175 Co-Req: MATH 180	FCWR 304 or 302 3 COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151			17/18
YEAR 3	FALL	CHEM 310 4 QUANTITATIVE ANALYSIS Pre-Req: CHEM 150	BIOL 340 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 210	SCIENCE ELECTIVE 3 (3 or 4 credits)	GENERAL ELECTIVE 3			ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161			17
	SPRING	CHEM 350 3 INSTRUMENTAL ANALYSIS Pre-Req: CHEM 310	CHEM 395 3 INTRODUCTION TO RESEARCH DESIGN Pre-Req: Any 300 level CHEM course	SCIENCE ELECTIVE 3 (3 or 4 credits)	GENERAL ELECTIVE 3			ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161			15
YEAR 4	FALL	CHEM 410 4 PHYSICAL CHEMISTRY I Pre-Req: CHEM 310 and Co-Req: MATH 170	CHEM 48X, 493 or 494 3/4 RESEARCH PROJECT LAB or INDEPENDENT RESEARCH III or IV	SCIENCE ELECTIVE 3 (3 or 4 credits)				ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161			13/14
	SPRING	CHEM 450 4 PHYSICAL CHEMISTRY II Pre-Req: CHEM 410 and Co-Req: MATH 180	CHEM 470 3 INORGANIC CHEMISTRY Pre-Req: CHEM 310	SCIENCE ELECTIVE 3 (3 or 4 credits)	GENERAL ELECTIVE 3			ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161			16

CREDITS 122-125

Science Elective Options (credits)	Manhattan	Old Westbury	<p><i>*Of the four required ICXX seminar courses (ICBS, ICLT, ICPH, ICSS), at least three must be in different subject areas.</i></p> <p><i>** Some students must take both MATH 135 and MATH 136. Both courses are the equivalent of MATH 141.</i></p> <p>Science Electives must be a 200 level or higher courses. In addition, CHEM 215 is NOT an acceptable science elective. For students that are planning to apply to medical school, you must take BIOL 150 (General Biology II) as one of your science electives as well as PSYC 101 and SOCI 101 for General Electives.</p> <p style="text-align: right;">Course names, numbers and/or pre-requisites are subject to change. (Rev. 2/23)</p>
CHEM 320 ENVIRONMENTAL CHEMISTRY (3)	FALL ONLY	AS NEEDED	
CHEM 455 Computational Chemistry (3)	SPRING ONLY	SPRING ONLY	
CHEM 420 PHARMACEUTICAL CHEMISTRY (3)	SPRING ONLY	SPRING ONLY	
CHEM 440 DRUG DISCOVERY (3)	AS NEEDED	SPRING ONLY	
BIOL 210 HUMAN GROSS ANATOMY (4)	SPRING ONLY	FALL and SPRING	
BIOL 310 HUMAN PHYSIOLOGY (4)	FALL ONLY	FALL and SPRING	