

YEAR TERM		CHEMISTRY/BIOLOGY			GENERAL ELECTIVES	MATH/PHYSICS		CORE		TOTAL CREDITS
YEAR 1	FALL	<b>CHEM 110</b> 4 GENERAL CHEMISTRY I Co-Req: MATH 135 or higher				<b>MATH 141**</b> 4 PRECALCULUS Pre-Req: Placement Exam or MATH 101		<b>FCWR 101*</b> 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100	<b>FCSC 101</b> 3 FOUNDATIONS OF SCIENTIFIC PROCESS	14
	SPRING	<b>CHEM 150</b> 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110	<b>BIOL 110</b> 4 GENERAL BIOLOGY I			<b>MATH 170</b> 4 CALCULUS I Pre-Req: Placement Exam, MATH 141, MATH 136, TMAT 155		<b>FCWR 151*</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101		15
YEAR 2	FALL	<b>CHEM 210</b> 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150				<b>MATH 180</b> 4 CALCULUS II Pre-Req: MATH 170	<b>PHYS 170/</b> 4/5 <b>PHYS 175</b> PHYSICS REQUIREMENT Co-Req: MATH 170	<b>FCIQ 101</b> 3 FOUNDATIONS OF INQUIRY		15
	SPRING	<b>CHEM 250</b> 4 ORGANIC CHEMISTRY II Pre-Req: CHEM 210			<b>GENERAL ELECTIVE</b> 3	<b>MATH 235</b> 3 APPLIED STATISTICS Pre-Req: MATH 170 --- OR --- <b>MATH 310</b> 3 LINEAR ALGEBRA Pre-Req: MATH 180	<b>PHYS 180/</b> 4/5 <b>PHYS 185</b> PHYSICS REQUIREMENT Pre-Req: PHYS 170 or PHYS 175 Co-Req: MATH 180	<b>FCSP 105</b> 3 FOUNDATIONS OF SPEECH COMMUNICATION		17
YEAR 3	FALL	<b>CHEM 310</b> 4 QUANTITATIVE ANALYSIS Pre-Req: CHEM 150	<b>BIOL 340</b> 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 250		<b>GENERAL ELECTIVE</b> 3			<b>FCWR 304 or</b> 3 <b>FCWR 302</b> COMMUNICATION FOR TECH. PROFESSIONS OR HEALTHCARE CAREERS Pre-Req: FCWR 151	<b>ICPH 3XX***</b> 3 PHILOSOPHY CHOICE	17
	SPRING	<b>CHEM 350</b> 3 INSTRUMENTAL ANALYSIS Pre-Req: CHEM 310	<b>CHEM 410</b> 4 PHYSICAL CHEMISTRY I Pre-Req: CHEM 310; Co-Req: MATH 170	<b>CHEM 395</b> 3 INTRODUCTION TO RESEARCH DESIGN Pre-Req: Any 300 level CHEM course	<b>GENERAL ELECTIVE</b> 3			<b>ICBS 3XX***</b> 3 BEHAVIORAL SCIENCE CHOICE		16
YEAR 4	FALL	<b>CHEM 493</b> 4 INDEPENDENT RESEARCH III Pre-Req: CHEM 395	<b>CHEM 450</b> 4 PHYSICAL CHEMISTRY II Pre-Req: CHEM 410 Co-Req: MATH 180	<b>SCIENCE ELECTIVE</b> 3 (3 or 4 credits)				<b>ICLT 3XX***</b> 3 LITERATURE CHOICE		14
	SPRING	<b>CHEM 494</b> 4 INDEPENDENT RESEARCH IV Pre-Req: CHEM 395	<b>SCIENCE ELECTIVE</b> 3 (3 or 4 credits)	<b>SCIENCE ELECTIVE</b> 3 (3 or 4 credits)	<b>GENERAL ELECTIVE</b> 3			<b>ICSS 3XX***</b> 3 SOCIAL SCIENCES CHOICE		16

**CREDITS** **124-127**

Science Elective Options (credits)	Manhattan	Old Westbury	
<b>CHEM 320</b> ENVIRONMENTAL CHEMISTRY (3)	FALL ONLY	AS NEEDED	*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 and MATH 136. Both courses are the equivalent of MATH 141. ***Seminar pre-requisites include: FCWR 151, FCIQ 101, FCSC 101, and FCSP 105.  Course names, numbers and/or pre-requisites are subject to change. (Rev. 05/18)
<b>CHEM 470</b> INORGANIC CHEMISTRY (3)	FALL ONLY	FALL ONLY	
<b>CHEM 420</b> PHARMACEUTICAL CHEMISTRY (3)	SPRING ONLY	SPRING ONLY	
<b>BIOL 210</b> HUMAN GROSS ANATOMY (4)	SPRING ONLY	FALL and SPRING	
<b>BIOL 310</b> HUMAN PHYSIOLOGY (4)	FALL ONLY	FALL and SPRING	