

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

CREDITS 122-125

Science Elective Options (credits)	Pre-requisites	
<b>CHEM 320</b> ENVIRONMENTAL CHEMISTRY (3)	CHEM 250	<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><b>** Some students must take both MATH 135 and MATH 136. Both courses are the equivalent of MATH 141.</b></p> <p><b>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.</b></p> <p style="text-align: right;">Course names, numbers and/or pre-requisites are subject to change. (Rev. 4/24)</p>
<b>CHEM 455</b> COMPUTATIONAL CHEMISTRY (3)	CHEM 410 and CHEM 450	
<b>CHEM 420</b> PHARMACEUTICAL CHEMISTRY (3)	BIOL 340	
<b>CHEM 440</b> DRUG DISCOVERY (3)	CHEM 420 or BIOL 456	
<b>BIOL 210</b> HUMAN GROSS ANATOMY (4)	N/A	
<b>BIOL 310</b> HUMAN PHYSIOLOGY (4)	BIOL 210 and CHEM 110	