BA CONCENTRATION in BIOLOGICAL CHEMISTRY

REQUIRED CHEMISTRY & CORE COURSES	Year	SEM	CR	GR	Pts	ТОТ Р		
GENERAL Chemistry I CHEM 131 OR AP Equivalent (4-5 cred	its)							
CHEM 131: Chemical Concepts I (5) or AP/Equiv		Fall			0.0	0.0		
ORGANIC Chemistry: FIRST-YEAR ORGANIC OR STANDARD	Sequenc	e (11 cre	edits)					
FIRST-YEAR ORGANIC Sequence								
CHEM 171: First-Year Organic Chemistry I (4)		Fall			0.0	0.0		
CHEM 173: First-Year Organic Chemistry I LAB (1)		Fall			0.0	0.0		
CHEM 172: First-Year Organic Chemistry II (4)		Spring			0.0	0.0		
CHEM 210W: Honors Organic Chemistry Lab II (2)		Spring			0.0	0.0		
OR STANDARD Sequence								
CHEM 203: Organic Chemistry I (4)		Fall			0.0	0.0		
CHEM 207: Organic Chemistry I LAB (1)		Fall			0.0	0.0		
CHEM 204: Organic Chemistry II (4)		Spring			0.0	0.0		
CHEM 210W: Honors Organic Chemistry Lab II (2)		Spring			0.0	0.0		
Three (3) of the following THEORY courses (12-13 credits)								
CHEM 132: Chemical Concepts II (5)		Spring			0.0	0.0		
CHEM 211: Inorganic Chemistry (4)		Fall			0.0	0.0		
CHEM 251: Physical Chemistry I (4)		Fall			0.0	0.0		
CHEM 252: Physical Chemistry II (4)		Spring			0.0	0.0		
Upper-Level Laboratory Courses (6 credits)								
CHEM 210W: Honors Organic Chemistry II Lab (2)		Spring			0.0	0.0		
CHEM 234 or 234W: Advanced Laboratory Techniques (choose) (4)		Spring			0.0	0.0		
Upper-Level Courses (8 credits)								
CHEM 262: Biological Chemistry (4 credits)					0.0	0.0		
+ Four (4) credits from following courses (4 credits):								
Approved 2XX Biology or Biochemistry Course (4 credits)					0.0	0.0		
CHEM 402: Biophysical Chemistry (2 credits)					0.0	0.0		
CHEM 440: Bioorganic Chemistry (4 credits)					0.0	0.0		
CHEM 461: Spectroscopy Techniques Applied to Biological Systems (2 credits)					0.0	0.0		
Optional Additional CHEM courses (NOT Required but will c	ount in C	HEM GP	Α)					
					0.0	0.0		
					0.0	0.0		
					0.0	0.0		
					0.0	0.0		
:AP/Transferred Chem Credits	CHEM	Credits:	0.0		0.0	0.0		

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ass & ID#:			Other Major?:									
Email:			CHM GPA:									
Advisor:		General GPA:										
REQUI	RED ANCILLARY & ALLIED COURSES	Year	SEM	CR	GR							
	MATHEMATICS - 140 OR 160 Sequence (8-12 credits)											
	MATH 140 Sequence											
	MATH 141: Calculus I (4)											
	MATH 142: Calculus II (4)											
	MATH 143: Calculus III (4)											
	OR MATH 160 Sequence											
	MATH 161: Calculus IA (4)											
	MATH 162: Calculus IIA (4)											
	+ One (1) of the following courses (4 credits)):										
	MATH 163: Ordinary Differential Eq (4)											
	MATH 165: Linear Algebra w/ Diffential Equations (4)											
	CSC 161: Intro to Programming (4)											
	CSC 171: Intro to Computer Science (4)											
	STAT 180: Intro to Applied Statistical Methodology (formerly STAT 211) (4)											
	STAT 190: Intro to Statistical Methodology (formerly STAT 212)											
	STAT 201: Intro to Probability (4)											
	PHYSICS - Two (2) of the following PHYSICS	course	s (8 cre	dits)								
	General Physics Sequence											
	PHYS 113: General Physics I (4)											
	PHYS 114: General Physics II (4)											
	Mechanics and Electricity & Magnetism											
	PHYS 121: Mechanics (4)											
	PHYS 122: Electricity & Magnetism (4)											
	Honors Mechanics and Electricity & Magnetism											
	PHYS 141: Mechanics (honors) (4)											
	PHYS 142: Electricity & Magnetism (honors) (4)											
	Primary Writing Requirement (WRT 105 or Equivalent)											
	MADE 105 OB Emilion											
	WRTG 105 OR Equiv:				Upper-Level Writing Requirement Satisfaction							
	•	on										
	•	on										

Date:

Student:

Bachelor of Arts (B.A.) Program in Chemistry

The B.A. program makes fewer specification at the advanced level than the B.S. degree and encourages a wide range of elective courses. It is particularly suitable for students with interdisciplinary scientific interests in the health professions, biology, physics, geological sciences, engineering, or education. B.A. students may elect advanced courses in chemistry, including independent research, and can, thereby, create a curriculum best suited to their individual interests. For more information, please contact our Undergraduate Studies Coordinator at: ugradadm@chem.rochester.edu.

Blank POS Worksheet Plan Your Own POS for CHEM BA Total: at least 41 credit-hours in chemistry, and at least 61 credit-hours overall Year 1/First Year Fall Cr | Spring Cr Year 2/Sophomore Year Cr Spring Cr Fall Year 3/Junior Year Cr Spring Cr Fall Year 4/Senior Year Fall Cr Spring Cr Year 5/for Take 5 Students Cr Cr Spring Fall AP Credit/Transfer Credit/Summer Credit Cr Class Cr Class

				Due due of Charling					
While the required course	se lood			Program Of Studies cheduled with some flexibility (e.g.,	tho ma	athomatics and physics or	urcoc)		
one of the following progr		,	nay be s	cheduted with some flexibility (e.g.,	tile ille	attietilatics and physics co	urses),		
0. 0		Sequence POS		SAMPLE First-	ear O	rganic Sequence POS			
		First Year			Year 1/First Year				
Fall	Cr	Spring	Cr	Fall	Cr	Spring	Cr		
CHEM 131	5	CHEM 132	5	CHEM 171	4	CHEM 172	4		
MATH 141/161	4	MATH 142/162	4	CHEM 173	1	CHEM 210W	2		
Elective	4	Elective or PHYS 121	4	MATH 161	4	MATH 162	4		
Elective	4	Elective	4	Elective	4	Elective or PHYS 121	4		
				Elective	4	Elective	4		
Year 2/Sophomore Year				Year	Year 2/Sophomore Year				
Fall	Cr	Spring	Cr	Fall	Cr	Spring	Cr		
CHEM 203	4	CHEM 204	4	CHEM 211	4	CHEM 234W	4		
CHEM 207	1	CHEM 210W	2	PHYS 113/122	4	PHYS 114	4		
PHYS 113 or PHYS 122	4	PHYS 114	4	MATH Elective	4	Elective	4		
Elective or MATH 143	4	MATH Elective	4	Elective	4	Elective	4		
Ye	ear 3/Ju	l unior Year		Ye	ar 3/Jı	l unior Year			
Fall	Cr	Spring	Cr	Fall	1	Spring	Cr		
CHEM 211	4	CHEM 234W	4	CHEM 251	4	CHEM 262	4		
CHEM 251	4	CHEM 262	4	Upper-Level Elective	4	CHEM 252	4		
Math Elective	4	Elective	4	Elective	4	Elective	4		
Elective	4	Elective	4	Elective	4	Elective	4		
Ve	ar 4/S	l enior Year			ar 4/S	l enior Year			
Fall	Cr	Spring	Cr	Fall	Cr	Spring	Cr		
Upper-Level Elective	4	Upper-Level Elective	4	Upper-Level Elective	4	Elective	4		
Elective	4	Elective	4	Elective	4	Elective	4		
Elective	4	Elective	4	Elective	4	Elective	4		
Elective	4	Elective	4	Elective	4	Elective	4		

Notes:

- Total at least 41 hours in chemistry and at least 60 credit hours overall.
- The First-Year Organic sequence is designed for first year students with good preparation in chemistry (e.g. two years of general chemistry and an Advanced Placement score 4 or 5, or equivalent preparation). This sequence fast tracks students to more advanced chemistry courses and fulfillment of degree requirements in other disciplines.
- B.A. candidates considering employment in the chemical profession or graduate work in chemistry should include: CHEM 210, 211, 231, 232, 251, and 252 in their curriculum.
- Students should speak with a chemistry advisor to tailor their programs specifically to their career goals. Particular electives thaten not included in the chemistry curriculum may be required for some graduate programs.
- Students who are interested in pursuing a double major or double degree, are advised to consult the College website which outlinute course overlap rules and additional credit requirements.