### **QUEENS COLLEGE**

# Chemistry BA Biochemistry Concentration

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
<b>5</b> I	Major Credits
27	Elective Credits

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. Our 4-year academic plans are illustrative examples of integrated degree requirements and course sequencing for each of the College's programs of study which are designed to ensure degree completion in a timely manner. Students are advised to meet with professional and faculty advisors to tailor their degree maps to their individual interests (academic and career goals), as well as other considerations including course offerings and the incorporation of winter and summer sessions. Course pre-requisite/s and co-requisite/s are strictly enforced, as are entrance and maintenance criteria (if applicable) for the successful completion of the degree.





## FOUR YEAR ACADEMIC PLAN

## **QUEENS COLLEGE**

# Chemistry BA Biochemistry Concentration

## Freshman

**FALL** 

Fall total credits	15 credits	Spring total credits	15 credits
World Cultures & Global Issues (WCGI)	3 credits	U.S Experience in its Diversity (USED)	3 credits
General Chemistry I		General Chemistry II	
CHEM 1134 & 1131 (LPS)	5 credits	CHEM 1144 & 1141 (SW)	5 credits
Precalculus		Calculus I	
MATH 122¥ (MQR)	4 credits	MATH I5I¥	4 credits
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits

**SPRING** 

# Sophomore

Fall total credits	15 credits	Spring total credits	16 credits
Individual and Society (IS)	3 credits	College Option Language (LANG)	4 credits
Creative Expression (CE)	3 credits	General electives*	3 credits
Calculus II		General Biology I	
MATH 152¥	4 credits	BIOL 105 (SCI)	4 credits
Organic Chemistry I		Organic Chemistry II	
CHEM 2514 & 2511 (SCI)	5 credits	CHEM 2524 & 2521	5 credits
FALL		SPRING	

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied.





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### FOUR YEAR ACADEMIC PLAN

# Chemistry BA Biochemistry Concentration

## Junior

**FALL** 

Fall total credits	16 credits	Spring total credits	15 credits
General electives	3 credits	General electives	3 credits
Principles of Physics I		With Writing Intensive Unit**	
PHYS 1454 & 1451 (LPS, SW, SCI)	5 credits	College Option Literature (LIT + W)	3 credits
Chemical Thermodynamics and Kinetics		Principles of Physics II	
CHEM 211	4 credits	PHYS 1464 & 1461 (LPS, SW, SCI)	5 credits
Inorganic Chemistry		Biochemistry I	
CHEM 3313 & 3311W	4 credits	CHEM 371	4 credits

**SPRING** 

### Senior

Fall total credits	15 credits	Spring total credits	15 credits
General electives	6 credits	General electives	5 credits
CHEM 395W Senior Thesis	3 credits	CHEM Elective Laboratory course	2 credits
Biochemistry Laboratory		Physical Biochemistry	
CHEM 376	2 credits	CHEM 378	4 credits
Instrumental Methods		Biochemistry II	
CHEM 3413 and 3411	4 credits	CHEM 372	4 credits
FALL		SPRING	

<sup>¥</sup> Students who fail or withdraw from this course multiple times may be prohibited from majoring in the sciences or mathematics; see your department for questions.





<sup>\*</sup>General Electives: Students may complete general electives by taking courses in (most) department/s or programs they choose; however, depending on the course/program, students may need department permission and/or prerequisite course/s. Electives may be used to supplement the chosen major (an English major may want to take a course in French or Italian literature) or to fulfill interest in a different area (a Music major may be interested in the physics of sound). Students are encouraged to use available electives to complete a dual major, minor, pre-requisites for graduate or professional school, or complete and internship, experiential learning and/or study abroad. Students are encouraged to use their available general electives wisely and focus on coursework that will assist them personally, academically and professionally.

<sup>\*\*</sup> If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.