QUEENS COLLEGE

Chemistry BA

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
51	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.





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Freshman

FALL SPRING

English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH I22¥ (MQR)	4 credits	MATH I51¥	4 credits
Precalculus		Calculus I	
CHEM 1134 & 1131 (LPS)	5 credits	CHEM 1144 & 1141 (SW)	5 credits
General Chemistry I		General Chemistry II	
World Cultures & Global Issues (WCGI)	3 credits	U.S Experience in its Diversity (USED)	3 credits
Fall total credits	15 credits	Spring total credits	15 credits

Sophomore

Fall total credits	I5 credits	Spring total credits	l6 credits
Individual and Society (IS)	3 credits	General electives*	3 credits
Creative Expression (CE)	3 credits	College Option Language (LANG)	4 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.





FOUR YEAR ACADEMIC PLAN

QUEENS COLLEGE

Chemistry BA

Junior

FALL		SPRING	
CHEM 3313 & 3311W	4 credits	CHEM 212	4 credits
Inorganic Chemistry		Quantum Chemistry and Spectroscopy	
CHEM 211	4 credits	PHYS 1464 & 1461 (LPS, SW, SCI)	5 credits
Chemical Thermodynamics and Kinetics		Principles of Physics II	
PHYS 1454 & 1451 (LPS, SW, SCI)	5 credits	CHEM 291 or chem 391.1	I credits
Principles of Physics I		Research in Chemistry and Biochemistry	
General Electives	3 credits	College Option Literature (LIT)	3 credits
		General electives	3 credits
Fall total credits	16 credits		
		Spring total credits	16 credits

Senior

FALL		SPRING	
CHEM 3413 and 3411	4 credits	CHEM 395W Senior Thesis	3 credits
Instrumental Methods		Advanced lab Course from the following:	3 credits
CHEM 371	4 credits	CHEM 376, CHEM 387, or CHEM 388	
Biochemistry I		CHEM 391.1-3	
One Advanced Course from the following:	4 credits	Research in Chemistry and Biochemistry	
CHEM 351, 352, 372, 378, OR 385		General electives	9 credits
General electives	3 credits		
		Spring total credits	15 credits
Fall total credits	15 credits		

*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.

[¥] 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.





^{**} If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.