

QUEENS COLLEGE

Chemistry BA

Biochemistry Concentration

FOUR YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

51 Major Credits

27 Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2022. 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

English Composition I (EC1)	3 credits
MATH 122¥ (MQR)	4 credits
Precalculus	
CHEM 1134 & 1131 (LPS)	5 credits
General Chemistry I	
World Cultures & Global Issues (WCGI)	3 credits

Fall total credits **15 credits**

SPRING

English Composition II (EC2)	3 credits
MATH 151¥	4 credits
Calculus I	
CHEM 1144 & 1141 (SW)	5 credits
General Chemistry II	
U.S Experience in its Diversity (USED)	3 credits

Spring total credits **15 credits**

Sophomore

FALL

CHEM 2514 & 2511 (SCI)	5 credits
Organic Chemistry I	
MATH 152¥	4 credits
Calculus II	
Creative Expression (CE)	3 credits
Individual and Society (IS)	3 credits

Fall total credits **15 credits**

SPRING

CHEM 2524 & 2521	5 credits
Organic Chemistry II	
BIOL 105 (SCI)	4 credits
General Biology I	
General electives*	3 credits
College Option Language (LANG)	4 credits

Spring total credits **16 credits**

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

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Junior

FALL

CHEM 3313 & 3311 Inorganic Chemistry	4 credits
CHEM 211 Chemical Thermodynamics and Kinetics	4 credits
PHYS 1454 & 1451 (LPS, SW, SCI) Principles of Physics I	5 credits
One Writing Intensive Unit (W)	3 credits

Fall total credits 16 credits

SPRING

CHEM 371 Biochemistry I	4 credits
PHYS 1464 & 1461 (LPS, SW, SCI) Principles of Physics II	5 credits
College Option Literature (LIT + W) With Writing Intensive Unit**	3 credits
General electives	3 credits

Spring total credits 15 credits

Senior

FALL

CHEM 3413 and 3411 Instrumental Methods	4 credits
CHEM 376 Biochemistry Laboratory	2 credits
General electives	9 credits

Fall total credits 15 credits

SPRING

CHEM 372 Biochemistry II	4 credits
CHEM 378 Physical Biochemistry	4 credits
CHEM Elective Laboratory course	2 credits
General electives	3 credits

Spring total credits 13 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.

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

¥ 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.

