

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

120

Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2020 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course pre-requisite/s and co-requisite/s are strictly enforced and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their degree.

QUEENS COLLEGE**Chemistry BA****Biochemistry Concentration****FOUR YEAR ACADEMIC PLAN****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.

QUEENS COLLEGE**Chemistry BA****Biochemistry Concentration****FOUR YEAR ACADEMIC PLAN****Junior****FALL**

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

Fall total credits 16 credits

SPRING

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

Spring total credits 15 credits

Senior**FALL**

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

Fall total credits 15 credits

SPRING

CHEM 372	4 credits
Biochemistry II	
CHEM 378	4 credits
Physical Biochemistry	
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.