

Chemistry BA

FOUR-YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

52 Major Credits

26 Elective Credits

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2017 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 prerequisite/s and corequisite/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.

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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 crs
Organic Chemistry II	
BIOL 105 (SCI)	4 crs
General Biology I	
College Option Language (LANG)	4 crs
General electives*	3 crs

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

Fall total credits **16 credits**

SPRING

CHEM 212 Quantum Chemistry and Spectroscopy	4 crs
PHYS 1464 & 1461 (LPS, SW, SCI) Principles of Physics II	5 crs
CHEM 391.1 Research in Chemistry and Biochemistry	1 crs
College Option Literature (LIT + W) With Writing Intensive Unit**	3 crs
General electives	3 crs

Spring total credits **16 credits**

Senior

FALL

CHEM 3413 and 3411 Instrumental Methods	4 crs
CHEM 371 Biochemistry I	4 crs
CHEM Elective lecture course	4 crs
General electives	3 crs

Fall total credits **15 credits**

SPRING

CHEM Elective laboratory course	2 crs
CHEM 391.2 Research or CHEM Elective laboratory course	2 crs
General electives	8 crs

Spring total credits **12 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, prerequisites for graduate or professional school, or complete an 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.