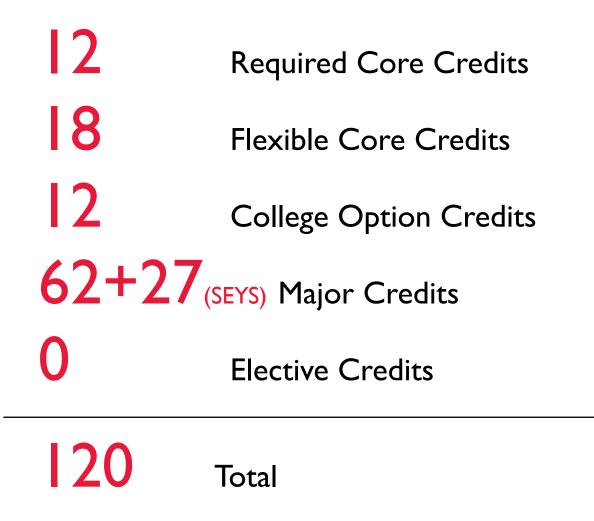
Chemistry Secondary Education BA

FOUR YEAR ACADEMIC PLAN



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

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Freshman

FALL

English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH 122 (MQR)	4 credits	MATH 151	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	BIOL 105 (SCI)	4 credits
		General Biology I	
Fall total credits	15 credits		
		Spring total credits	l 6 credits

SPRING

Sophomore

FALL		SPRING	
CHEM 2514 & 2511 (SCI)	5 credits	CHEM 2524 & 2521	5 credits
Organic Chemistry I		Organic Chemistry II	
MATH 152	4 credits	PHYS 1464 & 1461 (LPS, SW, SCI)	5 credits
Calculus II		Principles of Physics II	
PHYS 1454 & 1451 (LPS, SVV, SCI)	5 credits	U.S Experience in its Diversity (USED)	3 credits
Principles of Physics I		Individual and Society (IS)	3 credits
Creative Expression (CE)	3 credits		
		Spring total credits	l6 credits
Fall total credits	17 credits		

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

Completion of 21 credits in major with 2.75 GPA or higher 3.0 GPA in SEYS courses required to continue in program



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Junior

FALL

CHEM 3413 & 3411	4 credits
Instrumental Methods	
CHEM 211	4 credits
Chemical Thermodynamics and Kinetics	
SEYS 201W (W)	3 credits
Historical, Social, and Philosophical	
Foundations of Education	
SEYS 221	3 credits
Development and Learning in Middle Child	
and Adolescence	

Fall total credits

14 credits

SPRING

SPRING

SEYS 372.4

CHEM 395

Senior Seminar General electives*

Spring total credits

CHEM 371	4 credits
Biochemistry I	
CHEM 3213	3 credits
Practicum in Chemical Education	
SEYS 340	3 credits
Language, Literacy, & Culture in	
Education	
SEYS 362	3 credits
Methods in Teaching Science in	
Middle & High School	
ECPSE 350	3 credits
Foundations of Special Education	

Spring total credits

Student Teaching Clinical Experience in

College Option Literature (LIT + W) With Writing Intensive Unit**

Science for Secondary School

Senior

FALL

CHEM 3313 and 3311	4 credits
Inorganic Chemistry	
SEYS 372.2	3 credits
Student Teaching Initial Clinical Experience	
in Science for Secondary School	
SEYS 382	3 credits
Curriculum and Assessment in Teaching Scie	ence
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	
College Option Language (LANG)	4 credits

Fall total credits

17 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.





16 credits

3 credits

3 credits

3 credits

6 credits

15 credits