QUEENS COLLEGE

Chemistry Secondary Education 7-12 BA

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

42+27_(SEYS) Major Credits

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

		MATH 151¥	
English Composition I (EC1)	3 credits	Calculus I	
MATH 122¥ (MQR)	4 credits	CHEM 1144 & 1141 (SW)	
Precalculus		General Chemistry II	
CHEM 1134 & 1131 (LPS)	5 credits	BIOL 105 (SCI)	
General Chemistry I		General Biology I	
World Cultures & Global Issues (WCGI)	3 credits	General biology i	
		Spring total credits	
Fall total credits	15 credits	. 5	

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, SW, 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	16 credits
Fall total credits	17 credits		

SPRING

English Composition II (EC2)

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. Program leads to professional certification to teach chemistry in high schools. Contact SEYS advisor for completing all NY State mandated requirements.





3 credits 4 credits

5 credits

4 credits

16 credits

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Junior

Fall total credits

FALL

	J. 1	
4 credits		
	CHEM 371	4 credits
4 credits	Biochemistry I	
	CHEM 3213	3 credits
3 credits	Practicum in Chemical Education	
	SEYS 340	3 credits
	Language, Literacy, & Culture in	
3 credits	Education	
	SEYS 362	3 credits
	Methods in Teaching Science in	
14 credits	Middle & High School	
	ECPSE 350	3 credits
	Foundations of Special Education	
	Spring total credits	16 credits
	Spring total credits	16 credits
4 credits	Spring total credits SPRING	16 credits
4 credits		16 credits
4 credits 3 credits		16 credits 3 credits
	SPRING SEYS 372.4	
	SPRING SEYS 372.4 Student Teaching Clinical Experience in	
3 credits	SPRING SEYS 372.4 Student Teaching Clinical Experience in Science for Secondary School	
3 credits	SPRING SEYS 372.4 Student Teaching Clinical Experience in Science for Secondary School College Option Literature (LIT + W)	3 credits
3 credits	SPRING SEYS 372.4 Student Teaching Clinical Experience in Science for Secondary School	3 credits
3 credits 3 credits nce	SPRING SEYS 372.4 Student Teaching Clinical Experience in Science for Secondary School College Option Literature (LIT + W) With Writing Intensive Unit**	3 credits 3 credits
3 credits 3 credits nce	SPRING SEYS 372.4 Student Teaching Clinical Experience in Science for Secondary School College Option Literature (LIT + W) With Writing Intensive Unit**	3 credits 3 credits
	4 credits 3 credits 3 credits	CHEM 371 4 credits Biochemistry I CHEM 3213 3 credits Practicum in Chemical Education SEYS 340 Language, Literacy, & Culture in Education SEYS 362 Methods in Teaching Science in Middle & High School ECPSE 350

SPRING

*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.

17 credits



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