QUEENS COLLEGE

Chemistry Secondary Education 7-12 BA

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
41+	27(SEYS) Major Credits
10	Elective Credits

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. 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.





QUEENS COLLEGE

Chemistry Secondary Education 7-12 BA

Freshman

FALL	SPRING
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Fall total credits	15 credits	Spring total credits	16 credits
World Cultures & Global Issues (WCGI)	3 credits	General Biology I	
General Chemistry I		BIOL 105 (SCI)	4 credits
5 credits		General Chemistry II	
CHEM 1134 & 1131 (LPS)		CHEM 1144 & 1141 (SW)	5 credits
Precalculus		Calculus I	
MATH 122¥ (MQR)	4 credits	MATH I5I¥	4 credits
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits

Sophomore

FALL	SPRING
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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		

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.





QUEENS COLLEGE

FOUR YEAR ACADEMIC PLAN

Chemistry Secondary Education 7-12 BA

SPRING

Junior

FALL		

CHEM 3413 & 3411	4 credits	CHEM 371	4 credits
Instrumental Methods		Biochemistry I	
CHEM 211	4 credits	CHEM 3213	3 credits
Chemical Thermodynamics and Kinetics		Practicum in Chemical Education	
SEYS 201W (W)	3 credits	SEYS 340	3 credits
Historical, Social, and Philosophical		Language, Literacy, & Culture in	
Foundations of Education		Education	
SEYS 221	3 credits	SEYS 362	3 credits
Development and Learning in Middle Child		Methods in Teaching Science in	
and Adolescence		Middle & High School	
		ECPSE 350	3 credits
Fall total credits	14 credits	Foundations of Special Education	

Spring total credits 16 credits

Senior

FALL SPRING

CHEM 3313 and 3311W	4 credits	SEYS 372.4	3 credits
Inorganic Chemistry		Student Teaching Clinical Experience in	
SEYS 372.2	3 credits	Science for Secondary School	
Student Teaching Initial Clinical Expe	erience	College Option Literature (LIT)	3 credits
in Science for Secondary School		Major or General electives*	6 credits
SEYS 382	3 credits		
Curriculum and Assessment in Teach	ning Science	Spring total credits	13 credits
SEYS 350	3 credits		
Cognition, Technology & Instruction			
For Diverse Learners			

Fall total credits 17 credits

College Option Language (LANG)

*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.

4 credits

[¥] 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.





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