QUEENS COLLEGE

Chemistry Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
45+27 (SEYS) Major Credits
Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2025.

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

English Composition I (ECI)	3 credits 4 credits	English Composition II (EC2) MATH 151¥	3 credits 4 credits
MATH 122¥ (MQR) Precalculus	4 credits	Calculus I	4 Credits

CHEM 1134 & 1131 (LPS) 5 credits CHEM 1144 & 1141 (SW) 5 credits General Chemistry I General Chemistry II

SPRING

General Biology I

Spring total credits

World Cultures & Global Issues (WCGI) 3 credits BIOL 105 (SCI) 4 credits

Fall total credits 15 credits 16 credits

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

17 credits Fall total credits

All students are required to complete 100 hours of fieldwork prior to Student Teaching I.

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.



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Junior

FALL

CHEM 3413 & 3411	4 credits	CHEM 371
Instrumental Methods		Biochemistry I
CHEM 211	4 credits	CHEM 3213 [°]
Chemical Thermodynamics and Kinetics		Practicum in Chem
SEYS 201W (W)	3 credits	SEYS 340
Historical, Social, and Philosophical		Language, Literacy, 8
Foundations of Education		Education
SEYS 221	3 credits	SEYS 362
Development and Learning in Middle Child		Instructional Metho
and Adolescence		Science and Techno
		ECPSE 350

Fall total credits 14 credits

SPRING

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
Instructional Methods in Middle Childhood and A Science and Technology Education	Adolescent
ECPSE 350	3 credits
Foundations of Special Education	

Spring total credits 16 credits

Senior

For Diverse Learners

College Option Language (LANG)

FALL

CHEM 3313 and 3311W	4 credits
Inorganic Chemistry	
SEYS 372.2	3 credits
Student Teaching I in Science and Technology for High School	Middle and
SEYS 382	3 credits
Instruction and Assessment in Teaching Science a	and
Technology to Middle Childhood and Adolescen	t Students
SEYS 350	3 credits
Cognition, Technology & Instruction	

SPRING

SEYS 372.4	3 credits
Student Teaching II in Science and Technology for	Middle
and High School Major or non-major	
College Option Literature (LIT)	3 credits
Major or General electives*	7 credits

Spring total credits 13 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.

4 credits

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

¥ 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.

