QUEENS COLLEGE

Chemistry Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
College Option Credits
Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2024.

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

FOUR-YEAR ACADEMIC PLAN

Freshman

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH I22¥ (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

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) U.S Experience in its Diversity (USED) 5 credits 3 credits Principles of Physics I 3 credits Individual and Society (IS) Creative Expression (CE) 3 credits **Spring total credits** 16 credits **17 credits** Fall total 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

Chemistry Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

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

Senior

FALL

CHEM 3313 and 3311W	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 Science	
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	
College Option Language (LANG)	4 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
Methods in Teaching Science in	
Middle & High School	
ECPSE 350	3 credits
Foundations of Special Education	

Spring total credits

SPRING

SEYS 372.4	3 credits
Student Teaching Clinical Experience in	
Science for Secondary School	
College Option Literature (LIT)	3 credits
Major or General electives*	7 credits
Spring total credits	13 credits

16 credits

Fall total credits

17 credits

14 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.

¥ 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.

