

QUEENS COLLEGE

Chemistry BS Chemistry

Concentration

Four-Year Academic Plan

15

Required Core Credits

20

Flexible Core Credits

15

College Option Credits

52

Major Credits

18

Elective Credits

The purpose of this 4-year-plan is to help students graduate in four years. Students are encouraged to take Winter and Summer courses. This suggested sequence is NOT a substitute for students' responsibility to meet with a faculty advisor or departmental representative to continue and formalize the discussion to include identification of the exact coursework, sequence thereof, necessary prerequisites, and entrance and maintenance criteria (if applicable) for successful completion of their chosen field(s) of study.

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FRESHMAN	FALL		SPRING	
	ENGL 110 (Required Core EC1)	3 CR	Required Core (EC2)	3 CR
	MATH 122 (Required Core MQR) Precalculus	4 CR	MATH 151 Calculus I	4 CR
	CHEM 113.4 and 113.1 (Required Core LPS) General Chemistry I	5 CR	CHEM 114.4 and 114.1 (Flexible Core SW) General Chemistry II	5 CR
	Flexible Core	3 CR	Flexible Core	3 CR

15 Fall credits + 15 Spring credits = 30 credits

SOPHOMORE	FALL		SPRING	
	CHEM 251.4 and 251.1 Organic Chemistry I	5 CR	CHEM 252.4 and 252.1 Organic Chemistry II	5 CR
	MATH 152 Calculus II	4 CR	BIOL 105 (College Option SCI)	4 CR
	Flexible Core	3 CR	Flexible Core	3 CR
	Flexible Core	3 CR	College Option LANG	3 CR

30 Prior Credits + 15 Fall Credits + 15 Spring Credits = 60 Credits

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Pathways Four-Year Academic Plan

JUNIOR	FALL		SPRING	
	CHEM 331.3 and 331.1W Inorganic Chemistry	4 CR	CHEM 212 Quantum Chemistry and Spectroscopy	4 CR
	CHEM 211 Chemical Thermodynamics and Kinetics	4 CR	PHYS 146.4 and 146.1 Principles of Physics II	5 CR
	PHYS 145.4 and 145.1 (College Option LPS) Principles of Physics I	5 CR	CHEM 391.1 Research in Chemistry and Biochemistry	1 CR
	Elective	3 CR	College Option LIT	3 CR
			Elective	3 CR

60 Prior Credits + 16 Fall Credits + 16 Spring Credits = 92 Credits

SENIOR	FALL		SPRING	
	CHEM 341.3 and 341.1 Instrumental Methods	4 CR	CHEM Elective laboratory course	2 CR
	CHEM 371 Biochemistry I	4 CR	CHEM 395W	3 CR
	CHEM Elective lecture course	4 CR	Elective	2 CR
	Elective	3 CR	Elective	3 CR
			Elective	3 CR

92 Prior Credits + 15 Fall Credits + 13 Spring Credits = 120 Credits

****Electives:** Students may complete the remaining credits needed for their degree by taking courses in any department they choose.

Such courses are called electives and do not require faculty approval; however, depending on the course, students may need to have department permission or have taken prerequisite courses. Electives may be used to supplement the major (an English major may want to take a course in French or Italian literature) or to fulfill interest in a different area (an English major may be fascinated by mathematics and choose electives in that department). If professional requirements also must be met, as for secondary school teaching or medical school candidates, electives will provide the additional credits necessary (Queens College Undergraduate Bulletin, 42, 2014-2015).

Last update: Aug 2023