

**Chemistry:**

CHEM 122: *An Introduction to Chemistry* is designed for students with little or no background in chemistry. CHEM 230: *Equilibrium and Analysis* builds on topics from introductory chemistry and deals with quantitative aspects of acid-base and electron-transfer equilibria. Enrollment in this course requires CHEM 123: *Principles of Chemistry* or AP or IB credit in chemistry.

If you are interested in taking chemistry courses, but don't think these courses are right for you, start with another science or math course (Calculus I, II, and III are especially recommended) and take CHEM 123 in the winter or spring terms or CHEM 128: *Principles of Environmental Chemistry*, in the spring term.

Course	Term	Background Required
Chemistry 122	Winter	None
Chemistry 123	Fall, Winter and Spring	High School Chemistry
Chemistry 128	Spring	High School Chemistry
Chemistry 230	Fall and Spring	AP or IB Placement in Chemistry or Chemistry 123 at Carleton

*Representative courses leading to a major in chemistry.*

<b>CHEMISTRY:</b> A typical path for an incoming student who took Calculus I and basic (not AP) Chemistry in high school.			
	Fall Term	Winter Term	Spring Term
<b>Year 1</b>	Special course for first-year students	Physics 131/151	Chemistry 123/128
	Language 1	Language 2/Language 1, if Latin or Hebrew	Language 3
	MATH 131, 141 or 151		
<b>Year 2</b>	Organic Chemistry I	Organic Chemistry II	MATH 211
	Language 4		Equilibrium and Analysis
<b>Year 3</b>	Chemical Thermodynamics	Quantum Chemistry	Advanced course
	Advanced Lab: Kinetics	Advanced Lab: Quantum Spectroscopy	Another advanced lab
<b>Year 4</b>	Off-campus	Chemistry Comps	

<b>CHEMISTRY:</b> A typical path for an incoming student with no background in Calculus, Language, or Chemistry.			
	Fall Term	Winter Term	Spring Term
<b>Year 1</b>	Special course for first-year students	Writing Requirement	MATH 131, 141 or 151
	Language 1	Language 2/Language 1, if Latin or Hebrew	Language 3
	MATH 111	Chemistry 122	
<b>Year 2</b>	Chemistry 123	CHEM 233	CHEM 234
	Language 4		MATH 211

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<b>Year 3</b>	CHEM 230	CHEM 344	Advanced course
	Physics 131/151	Advanced Lab: Quantum Spectroscopy	Another advanced lab
<b>Year 4</b>	Chemical Thermodynamics	Chemistry Comps	
	Advanced Lab: Kinetics		

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