

Bachelor of Art in Chemistry

PLEASE NOTE: This is a SAMPLE course plan only. Please meet with your advisor to ensure completion of all requirements

Freshman		
<i>Fall</i>	<i>Spring</i>	<i>Units</i>
CHEM I07 or CHEM I15aL (GE-E) 4 units	CHEM I08 or CHEM I15bL 4 units	4
MATH I25 (GE-F) 4 units	MATH I26 4 units	4
WRIT-150 4 units	GESM I10, I20, I30, or I40 4 units	4
Foreign Language I 4 units	Foreign Language II 4 units	4
CHEM 294 (Optional)	CHEM 294 (Optional)	1-2

Sophomore		
<i>Fall</i>	<i>Spring</i>	<i>Units</i>
CHEM 325aL 4 units	CHEM 325bL 4 units	4
MATH 225 or MATH 226 4 units	PHYS I51L 4 units	4
Foreign Language III 4 units	GE-A, B, C, D, G, or H 4 units	4
GE-A, B, C, D, G, or H 4 units	GE-A, B, C, D, G, or H 4 units	4
Elective (Optional)	Elective (Optional)	1-2

Junior		
<i>Fall</i>	<i>Spring</i>	<i>Units</i>
CHEM 300L 4 units	Upper Division CHEM Elective* units	4
PHYS I52L 4 units	PHYS I53L 4 units	4
WRIT 340 4 units	GE-A, B, C, D, G, or H 4 units	4
GE-A, B, C, D, G, or H 4 units	Free Elective 4 units	4
Elective (Optional)	Elective (Optional)	1-2

Senior		
<i>Fall</i>	<i>Spring</i>	<i>Units</i>
CHEM 430 (fa) 4 units	CHEM 431 (sp) 4 units	4
Upper Division Science Elective** 4 units	GE-A, B, C, D, G, or H 4 units	4
GE-A, B, C, D, G, or H 4 units	GE-A, B, C, D, G, or H 4 units	4
Free Elective 4 units	Free Elective 4 units	4
Elective (Optional)	Elective (Optional)	1-2

* Upper Division CHEM Elective options: CHEM 332L (4 units, sp) or CHEM 423L (4 units, sp) or CHEM 453 (4 units, sp) or CHEM 490 (4 units)

** Upper Division Science Electives are any classes 300-499 in the natural sciences

-A regular full-load is 16 units; 2 unit electives in addition to these 16 units are optional.

-The GESM and GE requirements can be fulfilled in 6 courses if courses that double count are selected.

B.A. degree in Chemistry: Key Courses

Required Core Courses, Lower division		Units
CHEM 107L /108L	General Chemistry for Chemistry Majors, or	4-4
CHEM 115abL	Advanced General Chemistry	4-4
MATH 125	Calculus I	4
MATH 126	Calculus II	4
MATH 225	Linear Algebra and Linear Differential Equations, or	4
MATH 226	Calculus III	4
PHYS 151L	Fundamentals of Physics I: Mechanics and Thermodynamics	4
PHYS 152L	Fundamentals of Physics II: Electricity and Magnetism	4
PHYS 153L	Fundamentals of Physics III: Optics and Modern Physics	4

Required Core Courses, Upper division		Units
CHEM 300L	Analytical Chemistry	4
CHEM 325abL	Organic Chemistry	4-4
CHEM 430	Physical Chemistry: Thermodynamics and Kinetics	4
CHEM 431	Physical Chemistry: Quantum Mechanics	4

One Course from Among:		Units
CHEM 332L	Analytical Chemistry	4
CHEM 423L	Advanced Laboratory Techniques in Organic and Inorganic Chemistry	4
CHEM 453	Advanced Inorganic Chemistry	4
CHEM 490x	Directed Research	1-8

One Additional Upper-Division Science Elective (4 units required)		Units
---	--	-------