

**Chemistry Major (BS & BA)**

## Recommended Schedule

*Courses in Italics are optional for BA*

<b>Fall</b>		<b>Year 1</b>		<b>Spring</b>	
CHEM 12100+CHEM 12200 (or CHEM 12300 Enriched (4))	Principles of Chem (3) with ChemLab (1)	4	CHEM 12400	Experimental Chemistry I	2
CHEM 12000	Topics in Chem & Bioc	1	CHEM 22100	Organic Chemistry I	3
MATH 11100	Calculus I	4	MATH 11200	Calculus II	4
ICSM	Ithaca Seminar	4	WRG 10600	Academic Writing	3
	Elective/ICC*	3		ICC Elective*	3
		<b>Total 16</b>			<b>Total 15</b>
<b>Year 2</b>					
CHEM 22200	Organic Chemistry II	3	CHEM 23200	Quantitative Chemistry	3
CHEM 22500	Experimental Chemistry II	2	CHEM 32400	Experimental Chemistry III	3
PHYS 11700	Principles of Physics I	4	PHYS 11800	Principles of Physics II	4
	ICC Elective*	3		ICC Elective*	3
	CLA Elective	3		CLA Elective	3
		<b>Total 15</b>			<b>Total 16</b>
<b>Year 3</b>					
CHEM 33100	PChemI: Thermo and Kinetics	3	CHEM 32500	Exp. Chemistry IV ( <b>ICC WD</b> )	4
CHEM 34200	Inorganic Chemistry	3	CHEM 33200	PChem II: Quantum and Spec	3
	<i>Chemistry Research**</i>	1		<i>Chemistry Elective***</i>	1.5 x 2
	ICC Elective*	3		CLA Elective	3
	CLA Elective	3		Elective	3
		<b>Total 13</b>			<b>Total 16</b>
<b>Year 4</b>					
CHEM 48600	Chemistry Capstone: Senior Research Experience	3	CHEM 48800	Chemistry Capstone: Senior Thesis ( <b>ICC CP</b> )	3
CHEM 48700	Chemistry Seminar	1		<i>(Chemistry Elective***)</i>	1.5 x 2
BIOC 35300	Biochemistry I ( <b>ICC QL</b> )	3		Electives	9
	<i>Chemistry Elective***</i>	1.5 x 2			
	Electives	4			
		<b>Total 14</b>			<b>Total 15</b>
					<b>Program Total Credits 120</b>

**Notes**

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- \* - at least one ICC course has to have **ICC Diversity** designation
  - \*\* - Research Course is recommended for better success in the Senior Capstone following year.  
*Research Courses can be started in the earlier semesters as well.*
  - \*\*\* - a total of **6 credits** of Chemistry Electives is required. Most Chemistry Electives are block (half semester) courses at 1.5 credits each. Two such courses can be taken in two different semesters.

**Summary:**

Chemistry B.S. Major Requirements	65
Integrative Core Curriculum Requirements <sup>1</sup>	29-41
Electives	14-26
<b>Total Credits</b>	<b>120</b>

<sup>1</sup>For ICC and H&S CLA detailed requirements see<http://catalog.ithaca.edu/undergrad/schools/school-humanities-sciences/#integrativecorecurriculumicctext>