

CHEMISTRY MAJOR  
Bachelor of Science Degree (ACS Certified)  
 126 Semester Hours Minimum

Chemistry Courses - Required

_____ 860:044 General Chem I	4 hr
_____ 860:048 Gen Chem II	4 hr
<b>or</b>	
_____ 860:070 Gen Chem I-II	5 hr
_____ 860:110 Descriptive Inorganic	4 hr
_____ 860:120 Organic Chem I	3 hr
_____ 860:121 Organic Chem Lab I	2 hr
_____ 860:123 Organic Chem II	3 hr
_____ 860:132 Quantitative Analysis	4 hr
_____ 860:137 Instrumental Analysis	4 hr
_____ 860:140 Physical Chem:Thermo	3 hr
_____ 860:141 Physical Chem:Kinetics	3 hr
_____ 860:143 Physical Chem Lab	2 hr
_____ 860:145 Inorganic Chem	3 hr
_____ 860:125 Organic Chem Lab II	2 hr
<b>or</b>	
_____ 860:147 Inorganic Chem Lab	2 hr
_____ 860:154 Biochemistry I	4 hr
_____ 860:180 Undergrad Research	2 hr

4 - 47 hours

Elective\* (3 hours required)

Chemistry Lecture course carrying P Chem prerequisite	3 hr
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Math & Physics Courses

_____ 800:060 Calculus I	4 hr
_____ 800:061 Calculus II	4 hr
_____ 880:130 Physics I	4 hr
_____ 880:131 Physics II	4 hr
<b>or</b>	
_____ 880:054 General Physics I	4 hr
_____ 880:056 General Physics II	4 hr
_____ 100-Level Cognate Minimum	3 hr

16 - 19 hours

**Total: 63 - 66 hours**

\*Elective chosen in consultation with major advisor to meet approval guidelines of the American Chemical Society.

General Education (43 hours minimum)

Category I: Civilization & Cultures

_____ A. Humanities I	4 Hrs
_____ Humanities II	4 Hrs

_____ B. Non-Western Cultures	3 Hrs
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Category II: Fine Arts, Literature,  
Philosophy, and Religion

_____ A. Fine Arts	3 Hrs
_____ B. Literature, Philosophy, or Religion	3 Hrs

Category III: Natural Science &  
Technology

<u>  X  </u> A. Sphere I Satisfied (860:044 or 070)	4 Hrs
_____ B. Sphere II	3 or 4 Hrs
_____ C. Capstone	2 Hrs

Category IV: Social Science (9 hrs total)

_____ Group A	3-6 Hrs
_____ Group B	3-6 Hrs
_____ Group C	0-3 Hrs

Category V: Communication Essentials

_____ A. Writing and Reading	3 Hrs
_____ B. Speaking and Listening	3 Hrs
_____ C. Quant Techniques & Understanding	3 Hrs

Category VI: Personal Wellness

_____ 440:010 Personal Wellness	3 Hrs
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Major in Chemistry - Bachelor of Science  
SUGGESTED SCHEDULE

FRESHMEN YEAR

<u>FALL</u>		<u>SPRING</u>	
860:044 General Chemistry I	4	860:048 General Chemistry II	4
800:060 Calculus I	4	800:061 Calculus II	4
General Education	<u>8</u>	General Education	<u>8</u>
	16		16

ALTERNATE 1ST YEAR FOR WELL-PREPARED FRESHMEN (Department approval required)

<u>FALL</u>		<u>SPRING</u>	
860:070 General Chemistry I-II	5	860:132 Quantitative Analysis	4
800:060 Calculus I	4	800:061 Calculus II	4
General Education	<u>7</u>	General Education	<u>8</u>
	16		16

SOPHOMORE YEAR

<u>FALL</u>		<u>SPRING</u>	
860:120 Organic Chemistry I	3	860:123 Organic Chemistry II	3
860:121 Organic Chemistry Lab I	2	860:132 Quantitative Analysis	4
880:130 Physics I *	4	880:131 Physics II	4
General Education	<u>8</u>	General Education	<u>6</u>
	17		17

JUNIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:110 Descriptive Inorganic Chemistry	4	860:141 Physical Chemistry:Kinetics	3
860:140 Physical Chemistry:Thermo	3	860:143 Physical Chemistry Lab	2
Gen Ed/Electives	<u>9</u>	Gen Ed/ Electives	<u>11</u>
	16		16

SENIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:145 Inorganic Chemistry	3	860:137 Instrumental Analysis	4
860:147 Inorganic Chemistry Lab **2	2	860:180 Undergraduate Research	1
860:154 BioChemistry I	4	Chemistry B.S. Elective ***3	3
860:180 Undergraduate Research	1	Gen Ed/Electives	<u>8</u>
Gen Ed/Electives	<u>6</u>		16
	16		16

\*Physics Option: 880:054 General Physics I, 880:056 General Physics II, and one 100-level cognate elective of at least 3 credit hours may be substituted for the stated physics requirement.

\*\* Or 860:125 Organic Chemistry Lab II

\*\*\* Chosen in consultation with the major advisor to meet approval guidelines of the American Chemical Society.

Total Hours

General Education	43 hours
Major	63 hours minimum
University Electives/Minor	<u>24 hours</u>
	130 hours minimum

ADVISING NOTE: The above program represents one example of a variety of alternative schedules for completing the Chemistry B.S. Major. Requirements are subject to change.

