

CHEMISTRY MAJOR
Bachelor of Science with Biochemistry Emphasis Degree - ACS Certified
 126 Semester Hours Minimum

Name _____
 Campus Address _____ Phone _____
 Second Major _____ Minor 1 _____ Minor 2 _____
 Transferred _____ credits from _____ Advisor _____

Chemistry Courses

___ 860:044 General Chem I 4 hr
 ___ 860:048 Gen Chem II 4 hr
or
 ___ 860:070 Gen Chem I-II 5 hr
 ___ 860:110 Descriptive Inorg Chem 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
 ___ 860:154 Biochemistry I 4 hr
 ___ 860:155 Biochemistry II 2 hr
 ___ 860:156 Biochemistry Lab 2 hr
 ___ 860:180 Undergrad Research 2 hr

43-46 hours

Electives* (6 hours required)

100 Level Biology Course
 _____ 3 hr
 _____ 3 hr

Cognate Courses

___ 800:060 Calculus I 4 hr
 ___ 800:061 Calculus II 4 hr
 ___ 840:051 General Biology I 4 hr
 ___ 840:052 General Biology II 4 hr
 ___ 880:054 General Physics I 4 hr
 ___ 880:056 General Physics II 4 hr

Minimum Total: 73 hours

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

General Education (40 hours minimum)

Category I: Civilization & Cultures

___ A. Humanities I 4 Hrs
 ___ Humanities II 4 Hrs

___ B. Non-Western Cultures
 _____ 3 Hrs

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

X A. Sphere I Satisfied (860:044 or 070) 4 Hrs
X B. Sphere II Satisfied (840:051) 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

Major in Chemistry - Bachelor of Science with Biochemistry Emphasis

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
840:051 General Biology I	4	840:052 General Biology II	4
General Education	<u>4</u>	General Education	<u>4</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	
800:060 Calculus I	4	4	
840:051 General Biology I	4	800:061 Calculus II	4
General Education	<u>3</u>	840:052 General Biology II	4
	16	General Education	<u>4</u>
			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
880:054 General Physics I	4	880:056 General Physics II	4
General Education	<u>7</u>	General Education	<u>5</u>
	16		16

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>10</u>	840:1XX Biology Elective	3
	17	Gen Ed/ Electives	<u>9</u>
			17

SENIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:137 Instrumental Analysis	4	860:155 Biochemistry II	2
860:154 Biochemistry I	4	860:156 Biochemistry Lab	2
860:180 Undergraduate Research	1	860:180 Undergraduate Research	1
Gen Ed/Electives	<u>7</u>	Gen Ed/Electives	<u>11</u>
	16		16

Total Hours

General Education	40 hours
Major	73 hours minimum
University Electives/Minor	<u>17 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. with Biochemistry Emphasis Major. Requirements are subject to change.