

CHEMISTRY MAJOR (2019 Catalog)  
Bachelor of Arts Degree  
 120 Semester Hours Minimum

Name \_\_\_\_\_

Campus Address \_\_\_\_\_ Phone \_\_\_\_\_

Second Major \_\_\_\_\_ Minor 1 \_\_\_\_\_ Minor 2 \_\_\_\_\_

Transferred \_\_\_\_\_ credits from \_\_\_\_\_ Advisor \_\_\_\_\_

**Chemistry Courses**

CHEM 1110	General Chemistry I	4	_____
CHEM 1120	General Chemistry II	4	_____
	OR		
CHEM 1130	Gen. Chemistry I-II	5	_____
CHEM 2110	Descriptive Inorg Chem	4	_____
CHEM 2210	Organic Chemistry I	3	_____
CHEM 2220	Organic Chemistry II	3	_____
CHEM 2230	Organic Chem. Lab	2	_____
CHEM 2310	Chromatog. and Quant.	4	_____
CHEM 4010	Chemical Safety	1	_____
CHEM 4310	Instrumental Analysis	4	_____
CHEM 4420	Physical Chemistry I	3	_____
CHEM 4430	Physical Chemistry II	3	_____

**Math and Physics Courses**

MATH 1420	Calculus I	4	_____
MATH 1421	Calculus II	4	_____
PHYSICS 1701	Physics I	4	_____
PHYSICS 1702	Physics II	4	_____
	OR		
PHYSICS 1511	General Physics I	4	_____
PHYSICS 1512	General Physics II	4	_____

**Recommended**

CHEM3600	Undergraduate Research	2	_____
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**Total: 48-51 hours**

**Liberal Arts Core**

***Category I: Core Competencies (12 hrs)***

_____	A. Reading and Writing	3 hrs
_____	B. Speaking and Listening	3 hrs
<u>  x  </u>	C. Quantitative Techniques	3 hrs
	Satisfied by MATH 1420 4 hrs	
_____	D. Dimensions of Wellbeing	2 hrs

***Category 2: Civilizations and Cultures (9 hrs)***

_____	A. Humanities (take 2 of I, II, and III)	3 hrs
_____	_____	3 hrs
_____	B. Non-Western Cultures	3 hrs

***Category 3: Fine Arts, Literature, Philosophy and Religion (6 hrs)***

_____	A. Fine Arts	3 hrs
_____	B. Lit, Philosophy, or Religion	3 hrs

***Category 4: Natural Science and Technology (7 hrs)***

_____	A. Life Sciences	3 hrs
<u>  x  </u>	B. Physical Sciences	4 hrs
	Satisfied by CHEM 1110 or CHEM 1130	

***Category 5: Social Science (9 hrs)***

_____	A. Soc. & Historical Perspectives	3 hrs
_____	B. Individual & Institutional Perspectives	3 hrs
_____	C. Diversity & Global Issues	3 hrs

***Category 6: Capstone (2 hrs)***

_____	Capstone	
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**7 hours satisfied  
 37 hours needed**

SAMPLE PLAN OF STUDY FOR THE MAJOR IN CHEMISTRY – B.A.  
An average of 15 credits per semester is needed to graduate in 8 semesters.

FRESHMEN YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 1110	General Chemistry I	4	CHEM 1120	General Chemistry II	4
MATH 1140	Precalculus	4	MATH 1420	Calculus I	4
	Liberal Arts	<u>6</u>		Liberal Arts	<u>6</u>
		14			14

SOPHOMORE YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 2210	Organic Chemistry I	3	CHEM 2220	Organic Chemistry II	3
CHEM 2310	Chromatog. and Quant.	4	CHEM 2230	Organic Chemistry Lab	2
MATH 1421	Calculus II	4	CHEM 2110	Descriptive Inorganic Chem.	4
PHYSICS 1701	Physics I	<u>4</u>	PHYSICS 1702	Physics II	4
		15		Liberal Arts/Electives	<u>3</u>
					16

JUNIOR YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 4420	Physical Chemistry I	3	CHEM 4430	Physical Chemistry II	3
	Liberal Arts/Electives	<u>12</u>	CHEM 4010	Chemical Safety	1
		15		Liberal Arts/Electives	<u>12</u>
					16

SENIOR YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 4310	Instrumental Analysis	4		Liberal Arts/Electives	<u>15</u>
	Liberal Arts/Electives	<u>11</u>			15
		15			

Total Hours

Liberal Arts	37 hours
Major	48-51 hours
University Electives/Minor	<u>32-35 hours</u>
	120 hours minimum

ADVISING NOTE: This is a sample plan of study only. The above program represents one example of a variety of alternative schedules for completing the Chemistry B.A. Major. Requirements are subject to change.