

## Bachelor of Arts in Chemistry

The B.A. degree provides a solid foundation in chemistry so students have the same career options as those with the B.S. degree, while allowing students the flexibility to pursue other academic interests. All courses in the major core, major electives, and supporting courses must be taken in the traditional grading mode (A-F). It is highly recommended that students perform undergraduate research with a faculty member.

Please see the current approved curriculum on the SSU official catalog web page.

<b>Major Core Requirements</b>	<b>Units</b>	<b>Completed</b>	<b>To do (Semester)</b>
CHEM 115AB or CHEM 125AB*, General Chemistry.....	4	<input type="checkbox"/>	_____
(10 units, 4 in the major core, 6 in general education (GE B1 & B3))			
CHEM 255, Quantitative Analysis*.....	4	<input type="checkbox"/>	_____
CHEM 310AB, Physical Chemistry.....	6	<input type="checkbox"/>	_____
CHEM 316, Physical Chemistry Laboratory.....	2	<input type="checkbox"/>	_____
CHEM 325, Inorganic Chemistry.....	3	<input type="checkbox"/>	_____
CHEM 335AB Organic Chemistry.....	8	<input type="checkbox"/>	_____
CHEM 401, Chemical Synthesis and Characterization I.....	3	<input type="checkbox"/>	_____
CHEM 497, Research Seminar.....	1	<input type="checkbox"/>	_____
Elective (upper-division chemistry).....	<u>1</u>	<input type="checkbox"/>	_____
<b>Total units in the major core</b>	<b>32</b>		
<b>Supporting Courses</b>			
MATH 161, Calculus I.....	1	<input type="checkbox"/>	_____
(4 units, 1 in the major core, 3 in general education (GE B4))			
MATH 211, Calculus II.....	4	<input type="checkbox"/>	_____
PHYS 114 or 210A Physics I.....	3-4	<input type="checkbox"/>	_____
PHYS 116 or 209A Physics Laboratory I.....	1	<input type="checkbox"/>	_____
PHYS 214 or 210B Physics II.....	3-4	<input type="checkbox"/>	_____
PHYS 216 or 209B Physics Laboratory II.....	<u>1</u>	<input type="checkbox"/>	_____
<b>Total units in supporting courses</b>	<b>13-15</b>		
<b>GE Courses</b>			
CHEM 115AB.....	6		
MATH 161.....	3		
Others.....	<u>42</u>		
<b>Total units in GE courses</b>	<b>51</b>		
<b>Electives.....</b>	<b>22-24</b>		
Note! To meet the campus' requirement of 40 upper division units at least 7 units of these electives need to be in upper division courses. Please discuss this with your advisor.			
<b>Total units to graduate.....</b>	<b>120</b>		

**Freshman Year:**

<i>Fall semester (15 units)</i>	<i>Spring semester (16 or 17 units)</i>
CHEM 115A or CHEM 125A (5)	CHEM 115B or CHEM 125B (5)
MATH 161 (4)	MATH 211 (4)
GE (3)	PHYS 210A (3) or PHYS 114 (4)
GE (3)	PHYS 209A (1) or PHYS 116 (1)
	GE (3)

**Sophomore Year:**

<i>Fall semester (14 or 15 units)</i>	<i>Spring semester (15 units)</i>
CHEM 335A (5)	CHEM 335B (3)
PHYS 210B (3) or PHYS 214 (4)	CHEM 336 (2) (Elective units)
PHYS 209B (1) or PHYS 216 (1)	CHEM 255 (4) *
GE (3)	GE (3)
Elective (1 or 3) Recommended: MATH 261 (4)	GE (3)

**Junior Year:**

<i>Fall semester (15 units)</i>	<i>Spring semester (14 units)</i>
CHEM 310A (3)	CHEM 310B (3)
GE (3)	CHEM 316 (2)
GE (3)	GE (3)
GE (3)	GE (3)
Elective (3)	GE (3)

**Senior Year:**

<i>Fall semester (14 units)</i>	<i>Spring semester (16 units)</i>
CHEM 401 (3)	CHEM 497 (1)
CHEM 494 (1) (Elective units)	CHEM 325 (3)
GE (3)	Elective (3)
GE (3)	Elective (3)
Chemistry Elective (1)	Elective (3)
Elective (3)	Elective (3)

**Total semester units: 120**

CHEM 336 (2 unit) and CHEM 494 (1 unit) are used as chemistry elective units.

\* Students must place into the Chemistry 125 AB series by receiving an appropriate score on the chemistry placement exam. Quantitative Analysis (CHEM 255) is not required for students who have completed CHEM 125 A & B. Students should replace these four units by completing the challenge by exam form upon completion of the series.