CHEMISTRY, BS

Code	Title	Credits
Chemistry		45
CHEM-101 & CHML-101	GENERAL CHEMISTRY I and GEN CHEM I LAB	
CHEM-102 & CHML-102	GENERAL CHEMISTRY II and GEN CHEM II LAB	
CHEM-201 & CHML-201	ANALYTICAL CHEMISTRY and ANALYTICAL CHEM. LAB	
CHEM-301 & CHML-301	ORGANIC CHEMISTRY I and ORGANIC CHEM I LAB	
CHEM-302 & CHML-302	ORGANIC CHEMISTRY II and ORGANIC CHEM II LAB	
CHEM-401 & CHML-401	PHYSICAL CHEMISTRY I and PHYSICAL CHEM I LAB	
CHEM-402 & CHML-402	PHYSICAL CHEMISTRY II and PHYSICAL CHEM II LAB	
CHEM-431 & CHML-431	INSTRUMENTAL ANALYSIS and INSTRUMENTAL ANALYSIS LAB	
CHEM-441	ADVANCED INORGANIC CHEMISTRY	
CHML-441	ADVANCED INORGANIC LABORATORY	
CHEM-427A	SEMINAR IN CHEMISTRY	
CHEM-470	MECHANISMS IN BIOLOGICAL SYSTM	
CHEM-480	SP.TOPICS IN CHEMISTRY	
CHEM-498	UNDERGRADUATE RESEARCH	
Mathematics		15
MATH-151	CALCULUS I	
MATH-152	CALCULUS II	
MATH-251	CALCULUS III	
MATH-252	ORDINARY DIFFERENTIAL EQUATIONS	
Physics		8
PHYS-103 & PHYL-103	GENERAL PHYSICS I and GENERAL PHYSICS I LAB	
PHYS-104 & PHYL-104	GENERAL PHYSICS II and GENERAL PHYSICS LAB II	
Foreign Language	e ¹	3
General Electives		12
	n Requirements (https://catalog.sbu.edu/ egree-requirements/)	37
Total Credits		120

The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.

To satisfy the comprehensive requirement for chemistry, majors must take and pass a comprehensive exam given in their senior year in CHEM-427A. Examination details are announced each fall.

First Year			
Fall	Credits	Spring	Credits
CHEM-101 & CHML-101	4	CHEM-102 & CHML-102	4
MATH-151	4	MATH-152	4
ENG-101	3	Foreign Language 202 ¹	3

Foreign Language 201/General Elective	3 ENG-102		3
BONA-101	3		
	17		14
Second Year			
Fall	Credits	Spring	Credits
CHEM-301 & CHML-301	4	CHEM-302 & CHML-302	4
MATH-251	4	MATH-252	3
PHYS-103 & PHYL-103	4	PHYS-104 & PHYL-104	4
General Education Requirement	3	General Education Requirement	3
	15		14
Third/Fourth Years			
Fall	Credits	Spring	Credits
CHEM-401 & CHML-401 ²	4	CHEM-402 & CHML-402 ²	4
CHEM-480	3	CHEM-441 & CHML-441 ²	4
CHEM-498 ³	2	CHEM-427A	1
CHEM-201 & CHML-201	4	CHEM-431 & CHML-431	4
General Education Requirements	12	CHEM-470	3
General Electives	6	General Education Requirements	3
		General Electives	10
	31		29

Total Credits 120

- ¹ The foreign language must be at the level of 202 or higher. Students not prepared to begin at this level will need to take additional courses in language.
- Upper-level required Chemistry courses offered every other year.
 CHEM-498 can be taken at any semester after CHEM-102 & CHML-102, it can taken twice for 1 credit hour each, or once for 2 credit hours.

Changes in the sequence of the program listed above may be desirable. These must be made in consultation with the student's academic adviser.

To satisfy the comprehensive requirement for chemistry, majors must take and pass a comprehensive exam given in their senior year in CHEM-427A. Examination details are announced each fall.