B.S. Chemistry Major with Education Emphasis using Fall 2016 catalog or newer:

Required Courses

	Cred.	Offered	Course		Possible Substitutions			
	4	F,W,S	CHM 115	Principles of Chemistry I				
	5	F,W,S	CHM 116	Principles of Chemistry II				
	4	F,W,S	CHM 221	Survey of Analytical Chemistry				
	4	F	CHM 245	Principles of Organic Chemistry I	CUNA 241*			
	1	F	CHM 246	Principles of Organic Chemistry I Lab	CHM 241*			
	3	W	CHM 247	Principles of Organic Chemistry II	CUM 242*			
	1	W	CHM 248	Principles of Organic Chemistry II Lab	CHM 242*			
	3	F	CHM 273	Principles of Inorganic Chemistry				
	3	F	CHM 351	Introduction to Physical Chemistry	CHM 356 and 358			
	1	F,W	CHM 352	Physical Chemistry Laboratory				
	4	F,W,S	CHM 461	Biochemistry I				
	1	F,W	CHM 391	Chemistry Seminar I				
	1	F,W	CHM 491	Chemistry Seminar II				
Cognates								
	4	F,W,S	BIO 120	General Biology	CMB 155 and 156			
	4	F,W,S	BIO 121	General Biology II				
	4	F,W,S	GEO 111	Exploring the Earth				
	4	F,W,S	MTH 201	Calculus I				
	5	F,W,S	PHY 220	General Physics I	PHY 230			
	5	F,W,S	PHY 221	General Physics II	PHY 231			

^{*}Students who transfer or change majors may use the starred substitutions (with advisor approval)

Psychology and Education Courses:

 3	F	SCI 440	Physics and Chemistry in Secondary Education
 3	F,W,S	EDF 315	Diverse Perspectives in Education
 3	F,W,S	EDI 338	Teachers as Decision Makers: Inst. and Assess. in Elem. School
 3	F,W,S	EDS 379	Universal Design for Learning: Secondary
 3	F,W,S	PSY 101	Introductory Psychology
 3	F,W,S	PSY 301	Child Development

Students seeking a degree certified by the American Chemical Society (ACS) must also complete:

- Either CHM 462 or CHM 477 as one of their upper-level electives.
- At least 400 total lab hours in CHM courses above the 100 level.
 - o 148 beyond required courses if CHM 245-248
 - o 176 beyond required courses if CHM 241/242
 - CHM 499 lab hours may be used to satisfy the ACS lab hour requirement (42 hrs. per credit)
 - o CHM 490 may also be used to count towards lab hrs. with unit head approval