

Chemistry
Bachelor of Science in Education: Secondary Education
A Minimum of 133 Credits Required

A. GENERAL EDUCATION: 48 S.H.

1. Required Courses: 12 S.H.		GR.	S.H.
a. Composition – ENG 023-025, 230	# +		3
b. Oral Communication SPE 010	# +		3
c. General Psychology – PSY 011			3
d. Health – HPD 110, 115-116, 120			2/3
e. Physical Education or Dance: HPD 011-095			1

2. Humanities: 12 S.H.		GR.	S.H.
a. Literature, Foreign Language, or Philosophy			
ENG	# +		3
			3
b. Art History, Music, Speech, or Theatre			
			3
c. Elective in Humanities			
			3

3. Social Sciences: 12 S.H.		GR.	S.H.
a. History or Political Science			
HIS 025 or HIS 026 American History			3
b. Sociology, Anthropology or Psychology			
PSY 140			3*
c. Geography or Economics			
			3
d. Elective in Social Sciences			
EDU 100			3*

4. Natural Sciences & Mathematics: 12 S.H.		GR.	S.H.
a. Mathematics			
MAT 171	# +		3*
b. Biological Science/Lab			
BIO 104			3*
c. Physical Science/Lab (AST, CHM, GEL, MAR, PHY)			
CHM 102			3*
d. Natural Science or Mathematics Elective			
MAT 172	# +		3*

Total			
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B. PROFESSIONAL EDUCATION: 37 S.H.

1. Professional Courses: 13 S.H.		GR.	S.H.
EDU 100 Perspectives on American Ed.	# +		3*
PSY 140 Educational Psychology	+		3*
SPU 100 Introduction to Special Education	# +		3
** ITC 300 Instructional Media & Technology	# +		3
*** EDU 015 COE: First Year Seminar			1
Total			

2. Professional Semester: 12 S.H.		GR.	S.H.
SEU 310 Problems of Secondary Ed.	# +		3
SEU 320 Appraisal & Evaluation	# +		3
SEU 324 Meth. Of Teaching Sec. Subj.	# +		3
SEU 340 Tchg. Reading in Sec. Schools	# +		3
Total			

3. Student Teaching: 12 S.H.		GR.	S.H.
SEU 390 Clinical Experience/Practicum I	#		6
SEU 391 Clinical Experience/Practicum II	#		6
Total			

C. SPECIALIZATION: 66 S.H. – See other side

Notes:

- * Some courses in Professional Education and the Specialization can be used to fulfill General Education Requirements.
- ** Course to be taken the semester before professional semester.
- *** Course required for new students coming into program effective Fall 2003.
- # These courses require a grade of "C" or better.
- + Courses required prior to student teaching.

Students seeking multiple certifications must take the appropriate SEU Methods course for each certification area. All methods courses are offered at the same time.

Professional Semester includes a two-week field experience and should be scheduled as a block prior to student teaching.

Program # 37009
 Version # 20073
 Program Effective: Fall 2006

Approved: 
 Dean, College of Education

B.S. in Secondary Education – Chemistry

Program # 37009 Version # 20073

C. SPECIALIZATION: 66 S.H.		
1. Required Courses: 60 S.H.	GR.	S.H.
BIO 104 Principles of Biology		4
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
CHM 214 Organic Chemistry I		4
CHM 216 Organic Chemistry II		4
CHM 230 Quantitative Analysis		4
CHM 310 Biochemistry I		4
CHM 314 Physical Chemistry I		4
CHM 316 Physical Chemistry II		4
CHM 320 Advanced Inorganic Chemistry I		4
CHM 340 Instrumental Analysis		4
CHM 380 Senior Seminar in Chemistry		2
MAT 171 Calculus with Analytic Geometry I		3
MAT 172 Calculus with Analytic Geometry II		3
PHY 100 Physics I		4
PHY 102 Physics II		4
	Total	

2. Earth Science: 3 - 4 S.H. to be selected from the following:		
AST 140 Astronomy I		3
AST 142 Astronomy II		3
GEG 204 Meteorology		3
GEL 100 Physical Geology		4
MAR 110 Introduction to Oceanography		3
	Total	

3. Electives: 3 S.H. to be selected from the following:		
CHM 312 Biochemistry II		3
CHM 326 Advanced Organic Chemistry – Mechanisms		3
CHM 336 Advanced Physical Chemistry		3
CHM 351 Selected Topics		1-6
CHM 370 Research in Chemistry I		1-3*
CHM 371 Research in Chemistry II		1-3*
CHM 390 Internship in Chemistry		1-4
	Total	

*Note: The combined credit total toward the BSED SEU Chemistry degree for CHM 370 and CHM 371 may not exceed 4 S.H.