Chemistry, Secondary Certification Option

Bachelor of Science

Area A: Essential Ski	ills	
Grades of C or bette	er required.	
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1113	Precalculus Mathematics	3
Area B: Institutional	l Options	
COMM 1110	Fundamentals of Speech	3
(Prerequisite for <u>ED</u>	UC 2110, EDUC 2120, and EDUC 2130. Grade of C or better required.)	
One of the following	g electives:	1
COMM 1120	Argumentation and Advocacy	
ENGL 1105	Intro to Greek Mythology	
ENGL 1110	Creative Writing	
GEOL 1000	Natural Hazards	
HIST 1050	Appalachian Hist-Special Topic	
HIST 1051	Sports Hist & Amer Character	
HUMN 1000	Mystery Fiction in Pop Culture	
HUMN 1100	Political and Social Rhetoric	
HUMN 1300	Christian Fiction/Pop Culture	
PHED 1030	Health & Wellness Concepts	
SOCI 1000	Race and Ethnicity in America	
Area C: Humanities,	/Fine Arts	
Choose one to two ENGL course(s):		3-6

ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ENGL 2120	British Literature I	
ENGL 2121	British Literature II	
ENGL 2130	American Literature I	
ENGL 2131	American Literature II	
ENGL 2201	Intro to Film as Literature	
If only one ENGL course	e chosen, add one of the following:	0-3
ARTS 1100	Art Appreciation	
HUMN 1201	Expressions of Culture I	
HUMN 1202	Expressions of Culture II	
MUSC 1100	Music Appreciation	
MUSC 1110	World Music	
MUSC 1120	American Music	
<u>THEA 1100</u>	Theatre Appreciation	
Area D: Science/Mathe	ematics/Technology	
MATH 2253	Calculus and Analytic Geom I *	4
<u>PHYS 2211K</u>	Principles of Physics I	4
or <u>PHYS 1111K</u>	Introductory Physics I	JL
<u>PHYS 2212K</u>	Principles of Physics II	4
or <u>PHYS 1112K</u>	Introductory Physics II	II
Area E: Social Sciences	<u> </u>	
HIST 2111	United States History to 1877	3
or <u>HIST 2112</u>	United States Hist since 1877	II

POLS 1101	American Government	3
Two of the following electives:		6
<u>ANTH 1103</u>	Intro to Cultural Anthropology	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
<u>GEOG 1100</u>	Introduction to Geography	
<u>GEOG 1101</u>	Intro to Human Geography	
<u>GEOG 1111</u>	Intro to Physical Geography	
HIST 1111	World Civilization to 1650 CE	
HIST 1112	World Civilization since 1650	
<u>HIST 2111</u>	United States History to 1877	
HIST 2112	United States Hist since 1877	
PHIL 1103	Intro to World Religions	
<u>PHIL 2010</u>	Intro to Philosophical Issues	
<u>PHIL 2020</u>	Logic and Critical Thinking	
POLS 2101	Intro to Political Science	
POLS 2201	State and Local Government	
POLS 2301	Comparative Politics	
POLS 2401	International Relations	
<u>PSYC 1101</u>	Introduction to Psychology	
(Prerequisite for <u>EDUC 2</u>	110, EDUC 2120, and EDUC 2130. Grade of C or better is required.)	
<u>PSYC 2101</u>	Psychology of Adjustment	
<u>PSYC 2103</u>	Human Development	
<u>SOCI 1101</u>	Introduction to Sociology	

<u>SOCI 1160</u>	Social Problems	
Area F: Major Related		
<u>BIOL 1107K</u>	Principles of Biology I	4
<u>CHEM 1211K</u>	Principles of Chemistry I **	4
<u>CHEM 1212K</u>	Principles of Chemistry II **	4
<u>CHEM 2000</u>	Scientific Communication	2
<u>MATH 2254</u>	Calculus and Analytic Geom II	4
Upper Level Core Currici	ulum	
<u>CHEM 3211K</u>	Organic Chemistry I	4
<u>CHEM 3212K</u>	Organic Chemistry II	4
<u>CHEM 3311K</u>	Quantitative Analysis	4
<u>CHEM 3312K</u>	Instrumental Methods of Analys	4
<u>CHEM 3411K</u>	Physical Chemistry I	4
<u>CHEM 4000</u>	Senior Seminar	2
<u>CHEM 4110K</u>	Advanced Inorganic Chemistry	4
Upper Level Elective		
Choose one of the follov	ving upper level electives:	3-4
<u>CHEM 3500</u>	Biochemistry	
<u>CHEM 3700K</u>	Environmental Chemistry	
L	<u>JI</u>	
Education Courses		
PSYC 1101, COMM 1110 check, proof of professic course, and a passing sco	DUC 2110, EDUC 2120, and EDUC 2130, students must have taken , and Area A courses with grades of C or better. Approved Background onal Liability Insurance, completion of the mandated reporter training ore on an Ethics assessment are also required. EDUC 2110, EDUC 2120, apleted with grades of C or better prior to acceptance into PES 1.	

EDUC 2110	Investig Critical/Contem Issue (Includes 10 hrs of practicum)	3
EDUC 2120	Expl Socio-Cultural Perspect (Includes 10 hrs of practicum)	3
EDUC 2130	Exploring Learning/Teaching (Includes 10 hrs of practicum)	3
	T	
Professional Education	on Semester 1 (PES I) - Fall Semester	
Prior to enrollment ir	PES I courses, students must be accepted to the Teacher Education	
Program and have co	mpleted <u>CHEM 1211K</u> and <u>CHEM 1212K</u> with grades of C or better.	
EDUC 3272	Class Mgmt Sec Ed Field Exp I	2
EDUC 3902	Curric/Asses Secondary Teacher	3
Professional Education	on Semester 2 (PES II) - Spring Semester	
	PES II courses, students must have completed EDUC 3902 and EDUC 3272	
with grades of C or be	etter.	
EDUC 3273	Class Mgmt Sec Ed Field Exp II	2
EDUC 4901	Methods/Strat Teach Sec Stu	3
Professional Education	on Semester 3 (PES III) - Fall Semester	
Prior to enrollment ir grades of C or better.	n PES III, students must have completed <u>EDUC 3273</u> and <u>EDUC 4901</u> with	
EDUC 3120	Teaching Diverse Learners(Sec)	3
EDUC 3274	Class Mgm Sec Ed Field Exp III	2
	Y	
Professional Education	on Semester 4 (PES IV) - Spring Semester	
Prior to enrollment ir	PES IV, students must have completed EDUC 3120, EDUC 3274, and 24	
	istry with grades of C or better.	
READ 3456	Reading across Curric Sec Educ	3

EDUC 4953	Teaching Internship Seminar		1
EDUC 4954	Internship Sec School Chem		8
Physical Education			
PHED Activity Elective		1	
Total Hours			127- 128

* MATH 2253 may be taken in Area A if the student meets the prerequisites, with MATH 2254 then taken in Area D. The additional hour of credit will be applied to the upper level curriculum.

** CHEM 1211K and CHEM 1212K must be completed with grades of C or better.

** Prior to enrollment in EDUC 2110 and EDUC 2120 students must have taken ENGL 1101. For EDUC 2130, students must have taken ENGL 1101 and PSYC 1101 with grades of C or better. Approved Background check, proof of professional Liability Insurance, completion of the mandated reporter training course, and a passing score on an Ethics assessment are also required. EDUC 2110, EDUC 2120, EDUC 2130 must be completed with grades of C or better prior to acceptance into PES 1.