

CHEMISTRY, BS - GRADES 7-12 PHYSICAL SCIENCE EDUCATION CONCENTRATION

Course Sequencing

First Year

Fall		Hours
UNIV 1101	University Seminar I	1
CHEM 1411	General Chemistry I	4
BIOL 1406	Biology I	4
ENGL 1301	Writing and Rhetoric I	3
EDUC 1354	Child Growth and Development	3
Hours		15

Spring

UNIV 1102	University Seminar II	1
CHEM 1412	General Chemistry II	4
BIOL 1407	Biology II	4
ENGL 1302	Writing and Rhetoric II	3
American History Core Requirement		3
Hours		15

Summer

MATH 2413	Calculus I	4
American History Core Requirement		3
Hours		7

Second Year

Fall		Hours
CHEM 3411	Organic Chemistry I	4
PHYS 2425	University Physics I	4
POLS 2305	U.S. Government and Politics	3
EDUC 2211	Foundations of Education	2
Language, Philosophy & Culture Core Requirement		3
Hours		16

Spring

CHEM 3412	Organic Chemistry II	4
PHYS 2426	University Physics II	4
POLS 2306	State and Local Government	3
MATH 2414	Calculus II	4
SPED 3310	Individual Differences in Schools and Communities	3
Hours		18

Summer

Creative Arts Core Requirement		3
CHEM 4401	Biochemistry I	4
Hours		7

Third Year

Fall		Hours
SMTE 4320	Secondary Science Laboratory Techniques	3
SMTE 4270	Science Education Topics I	2
SMTE 4217	Secondary Approaches to the Life Sciences	2

READ 3353 or READ 3352	Content Area Reading for Secondary Students or Content Area Reading for Elementary Students	3
EDUC 3211	Culturally and Linguistically Responsive Teaching	2
CHEM 3418	Instrumental Analysis	4
Hours		16

Spring

PHYS 3334	Modern Physics I	3
CHEM 3417	Quantitative Analysis	4
CHEM 4423	Physical Chemistry I	4
CHEM 4443	Environmental Chemistry	4
BIEM 4357	Methods of Teaching English as a Second Language	3
Hours		18

Summer

MATH 3315	Differential Equations	3
Hours		3

Fourth Year

Fall

EDUC 4305	Seminar I	3
IDET 3210	Design and Development of Technology-Integrated Learning Environments	2
Hours		5

Spring

EDUC 4694	Clinical Teaching	6
EDUC 4395	Seminar II	3
Hours		9
Total Hours		129