

CHEMISTRY EDUCATION – Secondary Subject Endorsement

Bachelor of Science

Curriculum Guide

▪ FIRST YEAR

First Semester

CHEM	151	General Chemistry	4
EDUC	125	Introduction to Teaching	3
ENGL	111	College Writing I	3
MATH**	121	Precalculus	(5)
or RELT	141	Christian Beliefs	3
& HHPA	155	Concepts of Wellness	2
HHPA		Activity Elective	1
		Fine Arts Elective	1
		<u>Total</u>	<u>17</u>

Second Semester

CHEM	296	Research Methods I	1
CHEM	152	General Chemistry	4
ENGL	112	College Writing II	3
MATH	184	Calculus I	4
CPTR	220	Microcomputer Applications	3
COMM	105	Public Speaking	2
		<u>Total</u>	<u>17</u>

▪ SECOND YEAR

First Semester

CHEM	211	Organic Chemistry	4
PHYS	151	General Physics	4
BIOL	151	General Biology	4
ASTR	111	Astronomy	4
EDUC	225	Educational Diversity	1
		<u>**Total</u>	<u>17</u>

Second Semester

CHEM	212	Organic Chemistry	4
PHYS	152	General Physics	4
PSYC	215	Developmental Psychology	3
HHPA		Activity Elective	1
RELB		Religion Elective	3
		Fine Arts Elective	1
		<u>Total</u>	<u>16</u>

▪ THIRD YEAR

First Semester

EDUC	345	Learning Theories and Measurement	3
CHEM	445	Biochemistry I	4
EDUC	476	Content Reading	3
CHEM	386	Research Methods II	1
CHEM	311	Analytical Chemistry	3
EDUC	418	Methods: Science Education	3
SCNC	301	Science and Society	1
HMNT	310	Arts & Ideas	2
		(or PHIL, MUHL, ART)	2
		<u>**Total</u>	<u>20</u>

Second Semester

EDUC	218	Philosophy of Education	3
BIOL	152	General Biology	4
CHEM [^]	412	Physical Chemistry II	4
EDUC	356	General Secondary Methods	3
EDUC	346	Special Education in the Classroom	3
		Social Science Elective	3
		<u>**Total</u>	<u>20</u>

▪ FOURTH YEAR

First Semester

EDUC	475	Student Teaching	16
		<u>Total</u>	<u>16</u>

Second Semester

CHEM	396	Research Methods	1
LITR*	232	Modern Western Literature	3
EDUC	485	Issues in Education	1
RELT	455	Prophetic Guidance	3
RELH	310	History of the SDA Church	3
HIST		History Elective	3
CHEM	312	Instrumental Analysis	3
		<u>Total</u>	<u>17</u>

144 hours are required for graduation. 40 hours must be upper division (300 level or above).

* Other courses may also meet this requirement. See the Union College Bulletin 2012.

[^] Alternate year course.

** If Precalculus is needed, take it the first semester. Summer classes or an additional semester may be necessary to lighten the load per semester.

This sample guide is intended only to show you how a program might be arranged. Course schedules may change and it is possible that your courses will not be taken exactly in the order shown. Your academic advisor will help you design a program around your educational needs and goals.