

# CHEMISTRY – GENERAL CHEMISTRY

Bachelor of Science

Curriculum Guide

## ▪ FIRST YEAR

### First Semester

CHEM	151	General Chemistry	4
MATH*	121	Precalculus	5
ENGL	111	College Writing I	3
CPTR++	226	Computer Science I	4
			Total
			16

### Second Semester

CHEM	152	General Chemistry	4
MATH	184	Calculus I	4
ENGL	112	College Writing II	3
RELT	141	Christian Beliefs	3
HHPA	155	Concepts of Wellness	2
			Total
			16

## ▪ SECOND YEAR

### First Semester

CHEM	211	Organic Chemistry	4
MATH	285	Calculus II	4
PHYS	251	College Physics	4.5
RELB		Religion Elective	3
HHPA		Activity Elective	1
			Total
			16.5

### Second Semester

CHEM	212	Organic Chemistry	4
CHEM	296	Research Methods I	1
PHYS	252	College Physics	4.5
ENGL*	236	Approaches to Literature: World	3
MATH*		Math Contextual Elective	4
			Total
			16.5

## ▪ THIRD YEAR

### First Semester

CHEM	311	Analytical Chemistry	3
CHEM*		Chemistry Elective	4
or PHYS	411	or Physical Chemistry	
CHEM	386	Research Methods II	1
COMM	105	Public Speaking	2
REL		Religion Elective	3
HHPA		Activity Elective	1
		Fine Arts Elective	2
			Total
			16

### Second Semester

CHEM	312	Instrumental Analysis	3
CHEM	396	Research Methods III	1
PHIL*	335	Introduction to Philosophy	2
CHEM		Chemistry Elective	4
HIST		History Elective	3
		Electives	3
			Total
			16

## ▪ FOURTH YEAR

### First Semester

CHEM^	411	Physical Chemistry	4
Or CHEM		or Chemistry Elective	
CHEM	496	Research Methods IV	1
CHEM		Chemistry Elective	4
		Social Science Elective	3
		Contextual Elective (Non Chemistry)	3
			Total
			15

### Second Semester

CHEM^	412	Physical Chemistry II	4
REL		Religion Elective	3
CHEM		Chemistry Elective	4
		Social Science Elective	3
		Electives	2
			Total
			16

128 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 2010.

^ Alternate year course.

++ A prerequisite may be required if student has insufficient previous computer experience.

German is highly recommended for students planning for graduate studies.

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.