

# PHYSICS EDUCATION – Secondary Subject Endorsement

Bachelor of Science

Curriculum Guide

## ▪ FIRST YEAR

### First Semester

CHEM	151	General Chemistry	4
EDUC	125	Introduction to Teaching	3
RELT	141	Christian Beliefs	3
ENGL	111	College Writing I	3
ASTR	111	Astronomy	4
HHPA		Activity Elective	<u>1</u>
Total			18

### Second Semester

CHEM	152	General Chemistry	4
MATH	184	Calculus I	4
HHPA	155	Concepts of Wellness	2
ENGL	112	College Writing II	3
COMM	105	Public Speaking	2
HHPA		Activity Elective	1
		Fine Arts Elective	<u>1</u>
Total			17

## ▪ SECOND YEAR

### First Semester

PHYS	251	College Physics	4.5
MATH	285	Calculus II	4
EDUC	225	Educational Diversity (Multicultural)	1
PHYS	228	Electric Circuit Analysis	4
PHYS	261	Thermal Physics	3
		Fine Arts Elective	<u>1</u>
Total			17.5

### Second Semester

EDUC	218	Philosophy of Education	3
PHYS	252	College Physics	4.5
PHYS	296	Research Methods I	1
MATH	286	Calculus III	4
PSYC	215	Developmental Psychology	3
RELH	310	History of the SDA Church	<u>3</u>
Total			18.5

## ▪ Summers or Additional Semester

HIST*	157	West and the World	3
CPTR		Approved Computer Language	3
CPTR	220	Microcomputer Applications	3
RELB		Religion Elective	<u>3</u>
Total			12

## ▪ THIRD YEAR

### First Semester

EDUC	345	Learning Theories and Measurement	3
BIOL	151	General Biology	4
PHYS^	351	Quantum Mechanics	4
MATH^	385	Differential Equations	3
EDUC	476	Content Reading	3
EDUC	418	Methods: Science Education	<u>3</u>
Total			20

### Second Semester

PHYS	350	Modern Physics	4
BIOL	152	General Biology	4
LITR*	232	Modern Western Literature	3
EDUC	356	General Secondary Methods	3
PHYS	386	Research Methods II	1
PHYS		Approved Physics Elective	<u>3</u>
Total			18

## ▪ FOURTH YEAR

### First Semester

EDUC	475	Student Teaching	16
Total			16

### Second Semester

HIST*	315	Economic History of the US	3
RELT	455	Prophetic Guidance	3
PHIL	335	Introduction to Philosophy	2
EDUC	346	Special Education in the Classroom	3
EDUC	485	Issues in Education	1
PHYS		Physics Electives	<u>6</u>
Total			18

156 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.

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.