

# COMPUTING - COMPUTER INFORMATION SYSTEMS

Bachelor of Science

Curriculum Guide

## ▪ FIRST YEAR

### First Semester

CORE	108	Connections	1
CPTR	220	Microcomputer Applications	3
CPTR	225	Web Development Basics	1
CPTR	226	Computer Science I	4
BUAD	138	Dynamics of Business	3
RELT	141	Christian Beliefs	3
ENGL	111	College Writing I	3
			<u>3</u>
Total			18

### Second Semester

CPTR	240	Linux Admin & Security	3
CPTR	227	Computer Science II	4
CPTR	190	PC Technology Fundamentals	1
ENGL	112	College Writing II	3
MATH*	221	Elementary Statistics and Probability	3
			2
			<u>2</u>
Total			16

## ▪ SECOND YEAR

### First Semester

CPTR	320	Networking	3
ACCT	211	Principle of Accounting	3
PHYS	151	General Physics	4
FNCE*	215	Personal Finance	3
ECON*	235	Principles of Microeconomics	3
			<u>3</u>
Total			16

### Second Semester

CPTR	327	Systems Analysis & Design	3
ACCT	212	Principles of Accounting	3
RELB*	255	Jesus and the Gospels	3
HHPA	155	Concepts of Wellness	2
ENGL*	236	Approaches to Literature: World	3
			1
			<u>1</u>
Total			15

## ▪ THIRD YEAR

### First Semester

CPTR	335	Web Technologies	3
PHYC*	105	Introduction to Psychology	3
CPTR^	325	Computer Science III	3
RELB*	226	Old Testament Survey	3
HMNT*	305	Arts and Ideas	2
			2
			<u>3</u>
Total			17

### Second Semester

COMM	105	Public Speaking	2
CPTR	420	Windows Admin & Security	3
RELT	305	Christian Ethics	3
BIOL*	377	Origins	3
HIST		History Elective	3
HHPA		Activity Elective	1
			<u>1</u>
Total			15

## ▪ FOURTH YEAR

### First Semester

CPTR	424	Database Systems	3
BUAD	425	Business Communications	3
CPTR^*	405	Software Engineering	3
			7
			<u>7</u>
Total			16

### Second Semester

CPTR*	475	Internship in Computer Science	3
FNCE*	332	Investments	3
ACCT*	335	Accounting Information Systems	3
			6
			<u>6</u>
Total			17

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 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.