

# COMPUTER SOFTWARE DEVELOPMENT

BACHELOR OF SCIENCE (B.S.)

## CURRICULUM REQUIREMENTS

FALL 2024 – SPRING 2025

### FIRST YEAR

FALL SEMESTER		CREDITS	SPRING SEMESTER		CREDITS
COR101	First Year Core Curriculum Seminar	3	CSD102	Introduction to Computer Science II	4
CSD100	Introduction to Computer Software Development	3	ENG105	Professional Writing	3
CSD101	Introduction to Computer Science I	4	_____	General Elective	3
ENG101	English Composition I	3	IDS 103	Information and Media Literacy	3
IDS 104	Introduction to Computer Applications	3	_____	Liberal Arts Elective	3

### SECOND YEAR

FALL SEMESTER		CREDITS	SPRING SEMESTER		CREDITS
CSD200	Data Structures and Algorithms	3	CSD206	Web Design and Programming II	3
CSD205	Web Design and Programming I	3	CSD210	Computer Organization and Programming	3
ECO 220	Personal Finance	3	CSD212	Operating Systems and System Programming	3
_____	General Elective	3	COR____	Humanities Elective	3
_____	General Elective	3	_____	Liberal Arts Elective	3

### THIRD YEAR

FALL SEMESTER		CREDITS	SPRING SEMESTER		CREDITS
CSD215	IT Project Management and Methodologies	3	BUS114	Introduction to Business	3
CSD301	Database Systems	3	CSD307	Distributed Computing	3
CSD305	Networks and Network Administration	3	CSD309	Mobile Computing	3
COR____	Religion Elective	3	COR____	Social/Behavioral Elective	3
COR____	Humanities Elective	3	_____	Liberal Arts Elective	3

### FOURTH YEAR

FALL SEMESTER		CREDITS	SPRING SEMESTER		CREDITS
CSD403	Senior Project I	3	CSD409	Internship	3
CSD406	Special Topics	3	CSD4__	CSD 400 level elective	3
CSD4__	CSD 400 level elective	3	_____	Liberal Arts Elective	3
COR401	Core Curriculum Senior Seminar	3	_____	Liberal Arts Elective	3
_____	Liberal Arts Elective	3	_____	General Elective	3
			IDS401	Career Planning and Readiness	1

**Total credits: 123**

# **CORE ELECTIVES**

## **for**

# **COMPUTER SOFTWARE DEVELOPMENT**

## **BACHELOR OF SCIENCE (B.S.)**

Courses cannot be used to fulfill more than one Core Elective requirement. Students must meet all pre-requisites and co-requisites requirements.

### **CORE FOUNDATIONS**

The required courses of the Core Foundation introduce and reinforce the intellectual, social, and professional skills, values, knowledge, and discernment students will need to be successful at Villa Maria College and prepare them for responsible engagement as members of their communities. The Core Foundation courses are:

COR 101: First-Year Core Curriculum Seminar  
COR 401: Core Curriculum Senior Seminar  
ENG 101: English Composition I  
ENG 105: Professional Writing  
IDS 104: Introduction to Computer Applications  
IDS 103: Information and Media Literacy  
ECO 220: Personal Finance  
IDS 401: Career Readiness

### **HUMANITIES: TWO COURSES NEEDED**

Any History Course  
Any Language Course  
Any Philosophy Course  
IDS205 Crisis of Belief  
Any Aesthetic Engagement Course  
Any English Course

**With the exception of:** (cannot use the courses listed below)

ENG101 English Composition I  
ENG105 Professional Writing

### **RELIGIOUS THOUGHT AND PRACTICE: ONE COURSE NEEDED**

Any Religious Studies Course  
IDS205 Crisis of Belief

### **SOCIAL AND BEHAVIORAL PERSPECTIVES: ONE COURSE NEEDED**

Any Anthropology Course  
Any Economics Course  
Any Political Science Course  
Any Psychology Course  
Any Sociology Course

*Last Revised 12/2023*