

# RECOMMENDED PROGRAMME SEQUENCE

Bulletin Yrs. 2021-2024

## B.Sc. Computing – Software Systems Emphasis

**This sequence focuses on computing courses.**

Courses required for the computing major

Blue text

General Education courses required of all students

**Brown bold italics**

Courses comprising your General Education and Minor

*Brown italics*

### Year 1

#### Semester 1

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR120	Introduction to Computer Programming	3	University Entry requirements
MATH182	Calculus with Applications	3	
ENGL125	Academic Writing I	3	CXC ENGLISH
RELT100	God and Human Life	3	None
COMM104	Communication Skills	3	None
IDSC110	College Success & Career Planning	1	None
		<b>16</b>	

#### Semester 2

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR150	Computer Science I	3	CPTR120, MATH182
CPTR170	Microcomputer Hardware	3	None
ECON226	Principles of Microeconomics	3	
HLED220	Community and Environmental Health	3	None
PSYC101	Introduction to Psychology	3	None
PEAC110 or PEAC130	Personal Physical Fitness  Special Activities	1	None
		<b>16</b>	

# Year 2

## Semester 1

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR250	Computer Science II	3	CPTR150, MATH355 (Co. Req.)
CPTR270	Computer Organization & Assembler	3	CPTR150, CPTR170
MATH215	Introduction to Linear Algebra	3	MATH182 / MATH141
ENGL225	Academic Writing II	3	ENGL125
RELB210	Jesus in His Time and Ours	3	None
TCED285/ HMEC129	(Vocational Elective)	1	None
		<b>16</b>	

## Semester 2

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR290	Data Structures and Algorithms	3	CPTR250
CPTR282	Operating Systems	3	CPTR250, CPTR270
CPTR312	Networks & Telecommunications	3	CPTR250
ECON227	Principles of Macroeconomics	3	
ACCT122	Fundamentals of Accounting II	3	ACCT121
		<b>15</b>	

## Semester 3

Course Code	Course Name	Course Credits	Pre-Requisite(s)
ACCT121	Fundamentals of Accounting I	3	None
IDSC205	Introduction to Fine Arts	2	None
EDTE354	Philosophy for Education	2	None

# Year 3

## Semester 1

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR321	Database Systems Design & Development	3	CPTR250
CPTR331	Web Development	3	CPTR150
CPTR421	Object Oriented Programming	3	CPTR250
MATH355	Discrete Mathematics	3	MATH182 / MATH142
MATH141	Calculus I	4	CSEC Math Grade 1 or GCE Add Math
		<b>16</b>	

## Semester 2

Course Code	Course Name	Course Credits	Pre-Requisite(s)
CPTR352	Business Programming	3	CPTR250
CPTR282	Operating Systems I	3	CPTR251, CPTR270
CPTR332	Internet Technologies	3	CPTR250, CPTR331
MATH142	Calculus II	4	MATH141
<i>RELT250 / RELT340 / RELT360</i>	<i>Religion Elective</i>	<i>3</i>	<i>None</i>
		<b>16</b>	

# Year 4

## Semester 1

Course Code	Course Name	Credits	Pre-Requisite(s)
CPTR441	Computer Graphics	3	CPTR250
CPTR361	Software Engineering	3	CPTR321, CPTR250
CPTR311	Systems Analysis & Design	3	CPTR250
STAT340	Probability Theory & Statistical Applications	3	MATH141 / MATH182
<i>RELT250 / RELT340 / RELT360</i>	<i>Religion Elective</i>	<i>3</i>	<i>None</i>
		<b>15</b>	

## Semester 2

Course Code	Course Name	Credits	Pre-Requisite(s)
CPTR362	Software Engineering Group Project	2	CPTR361
CPTR411 or CPTR382 or CPTR420	Information Assurance and Security  Information Management  Introduction to Data Science *	3	CPTR250
<i>PHYS115</i>	<i>Concepts of Physics</i>	<i>3</i>	<i>None</i>
<i>SPAN101 / FREN101</i>	<i>Foreign Language Elective</i>	<i>3</i>	<i>None</i>
<i>BHSC100</i>	<i>Philosophy of Service</i>	<i>2</i>	<i>None</i>
<i>HIST147 or HIST104/5</i>	<i>West Indian History  World Civilizations I / II</i>	<i>3</i>	<i>None</i>
		<b>16</b>	

## Notes & Guidelines

- Courses required to complete this degree

Math (Cognate) courses	20 credits.
Computing (Core) courses	53 credits
General Education requirement	51 Credits

- Students are required to take a minimum of **one (1)** Religion course per academic year.
- Students who did not pass Caribbean History at CXC/GCE level MUST take HIST147.
- Students are allowed a maximum load of 16 credits per semester. Approvals for a greater number is only granted to students who satisfy the GPA requirement.
- All electives are provided in italics and brown tone. Possible minors include Math or Business.