BSC. MAJOR IN COMPUTER SCIENCE

The Department of Computer Science, Mathematics & Physics offers a Major, Double Major and Minor in Computer Science. In association with the Faculty of Social Sciences, the Options of a Double Major combining Computer Science with Accounting or Management are also offered to select students (Refer to the Undergraduates Handbook for Options in conjunction with other Faculties).

It is a requirement of the discipline that, to pass any Computer Science course, students must pass both Coursework and Final exam.

Provided below is a complete list of all the courses offered in the Major in Computer Science:

MAJOR IN COMPUTER SCIENCE:

LEVEL I (24 CREDITS)

COMP1170 Entrepreneurship for Computer Scientists

COMP1180 Mathematics for Computer Science I

COMP1205 Computing I

COMP1210 Computing II

COMP1215 UNIX

AND

9 Level I Credits from any Faculty

LEVELS II & III (60 CREDITS)

LEVEL II (15 Credits)
COMP2210 Mathematics for Computer Science II

COMP2611 Data Structures

COMP2220 Computer System Architecture

COMP2225 Software Engineering

COMP2232 Object-Oriented Programming Concepts

LEVEL III (9 Credits)

COMP3310 Algorithms

COMP3320 Design Principles of Operating Systems

COMP3330 Database Management Systems I

AND at least Six (6) Credits (including at least one Level III course) from Computer Science Elective Courses:

COMP2235 Networks I

COMP2245 Web Development Concepts, Tools and Practices

COMP2410 Computing in the Digital Age

COMP2415 Information Technology Engineering

COMP2950 Computer Science Elective

COMP3360 Networks II

COMP3365 Networks III

COMP3450 Fundamentals of Artificial Intelligence

COMP3370 Software Engineering On A Large Scale

COMP3375 Software Testing and Quality

COMP3385 Framework Design For Advanced Web Development

COMP3412 Scalable Enterprise Web Applications

COMP3415 Database Management Systems II

COMP3420 Computer Graphics

COMP3425 Mobile Applications for iOS Devices

COMP3435 User Interface Design

COMP3440 E-Commerce

COMP3445 Computer Information Systems

COMP3490 Research Project in Computer Science

COMP3495 Major Research Project in Computer Science (6 Credits)

COMP3499 Group Research Project in Computer Science

AND Thirty (30) Levels II/III credits from any Faculty. Three (3) of these credits can come from

a Co-Curricular course.

AND 9 CREDITS: FOUNDATION COURSES
FOUN1006 Exposition For Academic Purposes

OR

FOUN1008 An Introduction to Professional Writing

AND

*FOUN 1101 Caribbean Civilization

*FOUN1301 Law, Economy, Governance and Society

***A student may substitute one of these with a Foreign Language course**

MINOR IN COMPUTER SCIENCE [Fifteen (15) Credits]:

At Least Nine (9) Credits From:

COMP2210 Mathematics for Computer Science II

COMP2220 Computer System Architecture

COMP2225 Software Engineering

COMP2232 Object-Oriented Programming Concepts

COMP2611 Data Structures

COMP3310 Algorithms

COMP3320 Design Principles of Operating Systems

COMP3330 Database Management Systems I

AND at Most Six (6) Credits from Computer Science Elective Courses:

COMP2235 Networks I

COMP2245 Web Development Concepts, Tools and Practices

COMP2410 Computing in the Digital Age

COMP2415 Information Technology Engineering

COMP2950 Computer Science Elective

COMP3360 Networks II

COMP3365 Networks III

COMP3450 Fundamentals of Artificial Intelligence

COMP3370 Software Engineering On A Large Scale

COMP3375 Software Testing and Quality

COMP3385 Framework Design For Advanced Web Development

COMP3412 Scalable Enterprise Web Applications

COMP3415 Database Management Systems II

COMP3420 Computer Graphics

COMP3425 Mobile Applications for iOS Devices

COMP3435 User Interface Design

COMP3440 E-Commerce

COMP3445 Computer Information Systems

COMP3490 Research Project in Computer Science

COMP3495 Major Research Project in Computer Science (6 Credits)

COMP3499 Group Research Project in Computer Science

For further details on the Computer Science programme, contact the Discipline Coordinator for the Computer Science Programme – Dr. Thomas Edward, via email at thomas.edward@cavehill.uwi.edu, or via telephone at (246) 417-4029 or (246) 417-4365.