

BACHELOR OF SCIENCE IN COMPUTER INFORMATION SYSTEMS



The Department of Computer & Information Sciences is committed to providing the knowledge and skills required to prepare students to innovate and develop relevant technologies. We seek to instill within our students the attitudes and values that will prepare them for a lifetime of service, learning, and leadership.

WHAT IS COMPUTER INFORMATION SYSTEMS?

Computer Information systems (IS) is concerned with the information that computer systems can provide to aid a company, non-profit or governmental organization in defining and achieving its goals. It is also concerned with the processes that an enterprise can implement and improve using information technology. IS professionals must understand both technical and organizational factors, and must be able to help an organization determine how information and technology-enabled business processes can provide a foundation for superior organizational performance. They serve as a bridge between the technical and management communities within an organization.

What information does the enterprise need? How is that information generated? Is it delivered to the people who need it? Is it presented to them in ways that permit them to use it readily? Is the organization structured to be able to use technology effectively? Are the business processes of the organization well designed? Do they use the opportunities created by information technology fully? Does the organization use the communication and collaboration capabilities of information technologies appropriately? Is the organization capable of adapting quickly enough to changing external circumstances? These are the important issues that businesses rely on IS people to address.

Specifically, the Computer Information Systems graduates are most suited for:

- ◆ Project Management
- ◆ IT Consulting
- ◆ Technical Document Writing
- ◆ ERP
- ◆ Business/Systems Analysis
- ◆ IT/IS Management

DEGREE OFFERED

- ◆ B. Sc. in Computer Information Systems

ADMISSION REQUIREMENTS

Must have five (5) external passes including **Mathematics** and **English** (CXC level I, II or III / GCE grade A, B or C), or equivalent, or satisfactory grade in SAT (outside this region).

PROGRAM DURATION

Assuming that a full course load is taken each semester, the program takes, on average, 4 years to complete.

GRADUATION REQUIREMENTS

- ◆ An overall G.P.A. of 2.0, a minimum of 2.5 in core classes and 2.25 in the minor.
- ◆ At least a “C+” grade for all core, and a “C” in cognate classes.
- ◆ A passing score on the Language and Content Examination (Oral Exam).

INTERSHIPS

Internships provide the opportunity for upper level students to garner practical work experience in their field through temporary supervised positions in public or private organizations. This will foster enhanced learning through the application of skills acquired in a professional environment. All students are encouraged to involve themselves in this programme.

PROFESSIONAL ADVANCEMENT CREDITS (PAC)

Students must accumulate a minimum of 100 PACs starting in their junior year. Each one hour activity will be assigned 5 PACs. Credits can be obtained through participation in relevant and approved seminars, workshops and conferences. Membership in approved professional organizations is awarded up to 10 PACs. Completion of at least 100 PACs is a requirement for the course CPTR401 Seminar in Computer & Information Sciences.



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PROGRAM OUTLINE

Total Credit Hours: **131**

Major Credit Hours: **52**

CORE REQUIREMENTS (52 credits)

| | |
|---------|--|
| CPTR113 | Introduction to Programming |
| CPTR151 | Principles of Programming I |
| CPTR204 | Website Design & Implementation |
| CPTR213 | Fundamentals of Databases |
| CPTR230 | <i>Systems Analysis & Design</i> OR |
| CPTR235 | <i>Software Engineering</i> |
| CPTR240 | Upgrade and Repair of PC |
| CPTR242 | <i>Principles of Programming II</i> OR |
| CPTR262 | <i>Visual Programming</i> |
| CPTR252 | Data Structures & Algorithms |
| CPTR282 | Computer Organization and Architecture |
| CPTR293 | Field Group Project |
| CPTR300 | Colloquium |
| CPTR303 | IT Training & Support |
| CPTR304 | Internet Authoring |
| CPTR326 | Foundations of Information Systems |
| CPTR356 | IT Project Management |
| CPTR375 | Operating Systems |
| CPTR380 | Data Telecommunication |
| CPTR401 | Seminar in Computer Information Science |
| CPTR489 | CIS Project/Research Proposal Development |
| CPTR490 | Advanced Project |

BUSINESS REQUIREMENTS (18 credits)

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|---------|---------------------------|
| ACCT102 | Accounting Fundamentals |
| ACCT103 | Financial Accounting |
| MGMT252 | Principles of Management |
| ECON216 | Micro Economics OR |
| ECON217 | Macro Economics |
| MKTG311 | Principles of Marketing |
| MGMT452 | Organizational Behaviour |

ELECTIVES (12 credits)

Any other 300/400 level Computer Information Science course may be used to satisfy these electives subject to the approval of the academic advisor or department chair.

ASSOCIATIONS / PARTNERSHIPS



The **CompTIA Academy Partner Program** is designed to provide a pathway for students toward a rewarding, high-growth IT career. The program is open to educational institutions that grant diplomas or degrees, and to nonprofit or government training organizations. Its goal is to help partners deliver a substantial IT

curriculum and learning experience.



DreamSpark is a Microsoft Program that supports technical education by providing access to Microsoft software for learning, teaching and research purposes.

DreamSpark is simple: it's all about giving students Microsoft professional-level developer and designer tools at no cost so that students can chase their dreams and create the next big breakthrough in technology - or just get a head start on their career.

DreamSpark helps educators teach the latest technologies and experiment in research. Microsoft knows that to make learning more motivating, relevant, and engaging for today's students requires a diverse set of resources. DreamSpark gives educators the resources to ensure their classrooms always have the latest technologies to challenges, motivate, and keep students engaged in new ways.



The **Jamaica Computer Society** is an independent professional body designed to facilitate the establishment and maintenance of standards of practice for technology professionals. JCS represents companies and individuals involved in the Information and Communication Technology (ICT) industries.

TestOut TestOut is the leader in online labs for academia and IT professionals. With LabSim, students get a broad range of hands-on experience in a safe, simulated environment.

