

MASTER OF SCIENCE IN 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.

PROGRAM OVERVIEW

The Master of Science in Information Systems (MSIS) is a graduate degree that combines technical information in computer and information science with business concepts and applications. This program focuses on the use of information systems to support management activities within an organization. The programme will provide in-depth information on connectivity, data protection, privacy, security and ethical practices in the information age. Individuals will acquire skills that will be valuable in telecommunication, manufacturing, business, agricultural, academic and service industries.

OBJECTIVES

The general objectives of the Master of Science in Information Systems (MSIS) are to:

1. Provide students with the requisite tools to effectively manage, maintain, and develop an organization's information system and technology infrastructure.
2. Provide students with the knowledge and requisite skills to adapt and handle the demands of a dynamic information technology industry.
3. Develop information systems professionals who are able to undertake key leadership roles which involve managing and implementing data driven resources and information systems.

ADMISSION REQUIREMENTS

Applicants should possess a Bachelor's degree in Computer Science, Information Science or related area from an approved or accredited institution. Students from other disciplines are encouraged to apply, however they may be required to complete additional course work to meet the requirements of the MSIS.

Applicants should have a minimum cumulative GPA (grade point average) of 3.0 (on a 4 point scale) or a B average.

Admission is based upon a review of the applicant's application, statement of interest, official transcripts



NORTHERN CARIBBEAN UNIVERSITY
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from the registrar of the applicant's college or university and two recommendations from major lecturers or professors.

CURRICULUM

The M.Sc. degree requires thirty eight to thirty nine semester credit hours which include twenty four (24) credit hours of core courses and a choice of twelve (12) credit hours of elective courses, as well as an ethics course requirement (2-3 credits). There are optional areas of specialization available – Technology Management, Networking and Information Security, and Application Development. Those persons who choose to specialize will be required to take four (4) courses representing twelve (12) credits as outlined for each specialization. This will result in a total of 39 credit hours for the optional specialization.

A. CORE REQUIREMENTS

- ◆ Foundations of Information Systems
- ◆ Computer & Professional Ethics
- ◆ IT Infrastructure & Technology and Management
- ◆ Introduction to Research
- ◆ Emerging Technologies & Issues
- ◆ Information Policies & Strategies
- ◆ Project & Change Management
- ◆ Information Systems Research Project

B. ELECTIVES

- ◆ Information Systems Programming
- ◆ The Management of Information Systems
- ◆ Database Systems Administration
- ◆ Human Computer Interaction
- ◆ Data Warehousing and Mining
- ◆ Electronic Commerce
- ◆ Information Assurance & Security Management
- ◆ Software Engineering
- ◆ Knowledge Management and Business Intelligence
- ◆ Analysis, Modeling and Design
- ◆ Network Security and Intrusion Detection
- ◆ Decision Support Systems
- ◆ Data Telecommunications & Networking
- ◆ Enterprise Models and Systems

C. CONCENTRATIONS

Students can use their electives to form concentrations in areas related to Information Systems. Some of these areas are identified below. Normally a student will not take all of the courses listed for an area, but rather only those courses which best meet his/her educational objectives.



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Networking and Information Security

- ◆ Information Assurance & Security Management
- ◆ Network Security and intrusion Detection
- ◆ Data Telecommunications & Networking
- ◆ Enterprise Models and Systems

Technology Management

- ◆ Data Warehousing and Mining
- ◆ Information Assurance & Security Management
- ◆ Knowledge Management and Business Intelligence
- ◆ Decision Support Systems
- ◆ Enterprise Models and Systems

Application Development

- ◆ Information Systems Programming
- ◆ Database Systems Administration
- ◆ Human Computer Interaction
- ◆ Data Warehousing and Mining
- ◆ Electronic Commerce
- ◆ Software Engineering

PROGRAM DURATION

Based on the credits and the units offered, it should take 1 ½ -2 years of full-time study to complete the programme.

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.

