

Bachelor of Science in Computing

The School of Computing and Information Technology (SCIT) offers a four year programme leading to a Bachelor of Science Degree with a major in Computer Science or Information Technology. The aim of this course of study is to provide students with a solid foundation in computing that meets both international standards for tertiary level computing curricula and the needs of the computing industry locally and regionally.

Course Goals

This course of study seeks to establish a curriculum that helps to drive the innovative use of emerging technologies and create graduates with the aptitude and skills to drive real sustainable value creation.

- The Computer Science major is designed to equip graduates with the skills to understand and implement computers and efficient computational processes.
- The Information Technology major is designed to produce graduates who possess the right combination of theoretical and practical skills.

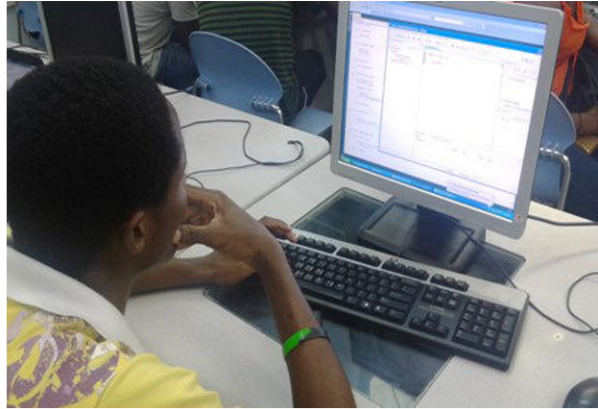
Course Objectives

Students of both majors should be able to:

1. Demonstrate proficiency in the use of computer science tools and technologies.
2. Apply fundamental programming skills in order to implement algorithms and data structures in software.
3. Demonstrate skill sets that go beyond technical skills.
4. Determine the most effective ways to utilize software engineering principles and technologies.
5. Apply theory and skills learned in academia to real-world occurrences to explicate their relevance and utility.
6. Evaluate information technology solutions in order to create value for the organization.

Course Delivery

The principal mode of delivery for this course will be done over eight (8) full time semesters through a combination of lectures, tutorials and laboratory sessions.



Specializations & Career Options

Computer Science

This is the study of the theoretical foundations of information and computation and of practical techniques for their implementations and applications in computer systems. Computer Science has many subfields, such as, Computer Graphics, Computational Complexity Theory, Programming Language Theory and Human Computer Interaction. Graduates within this field may obtain any of the following career paths:

- Systems Analyst/Consultant/Engineer/Programmer
- Database Analyst
- Artificial Intelligence Programmer/Researcher
- Data Miner
- Scientific Applications Programmer
- User Interface Designer
- Embedded System Application Programmer
- Computer Scientist/Researcher
- Bioinformatics Specialist
- Technical Support Representative



Specializations in Information Technology

Networking Minor

This area seeks to prepare graduates for the Networking and Telecommunications sectors, by exposing them to concepts relating to the science of Digital and Data Communications systems and the technologies involved. The potential career options for this field are as follows:

- Network & Security Officer/Analyst
- IP Engineer
- Radio Frequency (RF) Engineer
- Voice over IP Engineer
- LAN/WAN Engineer
- Network Technician/Consultant
- Systems Specialist/Engineer

Information Systems Minor

The management and auditing of information systems is the principal focus of this field of study which prepares candidates for the following career path:

- IT Manager/Project Manager
- Business Analyst
- IS Auditor
- IT Quality Assurance Consultant

Enterprise Systems Minor

This area of concentration focuses on the technical and practical side of enterprise systems. It entails the building of databases and their supporting applications which are optimal for communication. The career opportunities within this area are as follows:

- Programming Analyst/Programmer
- Application Developer
- Database Administrator/Developer
- Business Analyst
- Data Warehousing Developer
- IT Quality Assurance Consultant
- Software Engineer

Multimedia Minor

This is the process of planning instructional design, and development. Here students will focus on developing advanced skills to create interactive computer applications using the elements of text, 2D and 3D graphics, animation, sound, video and digital imaging. Graduates may obtain any of the following job after their studies:

- Animator
- Web Designer/Developer
- Illustrator
- Multimedia Designer
- Graphic Designer



Testimonials



Enrolling in the BSc. in Computing Programme was the best career move I made. Overall, this is a well rounded programme that provides a thorough knowledge base with valuable insights into the rapidly changing information technology industry. I entered into this programme with very little knowledge of programming and information technology in general. The highly competent instructors and well developed course material helped me to quickly catch on

and I have completed my degree with honours within the required 4 years.

Thanks to this programme, I have begun to build my career in the I.T. industry, now working as a software developer and studying to receive my MSc. in Computer Science.

Kimberly N Guthrie
Software Developer - Information Technology Major with Enterprise System Minor



I chose the Computer Science (CS) programme as it provided me with practical and relevant experience to work in the growing ICT sector. The course material was clear and well formulated. The areas of Computational Science, Programming Languages, Automata Theory, and Information Storage and Retrieval have helped in my pursuit of a Software Designer and Developer. The programme has provided me with the

knowledge, tools, and hands-on experience necessary to be successful in both my career and personal life. I would strongly recommend to anyone wishing to pursue a career in computers and information technology to look closely at the opportunities UTech, SCIT has to offer.

Shaun Ramsay
Software Engineer - Computer Science Major



A fascinating and historic campus setting, with classmates from different cultures and backgrounds and the accommodative staff made my experience at the University of Technology, Jamaica (School of Computing and Information Technology) beneficial and worthwhile. The knowledge I gained there was both theoretical and practical, transmitted by lectures with industry insight and real world experience. The school offers a great environment where teamwork is put into practice, which allowed us to learn and exchange ideas. The internship programs organized by the school give students the opportunity to work in their respective field of study and create contacts that will go beyond their studies.

Renea Virgo
Database Administrator - Information Technology Major with Enterprise System Minor

Entry Requirements

Candidates are required to have a minimum of five (5) subjects in the CXC General Examinations or the equivalent, inclusive of Mathematics and English Language at levels 1, 2, and 3 (from June 1998) or GCE Ordinary level passes at A, B or C. Documentary evidence of qualifications must be provided with the application.

Ownership of a computer/laptop would be an asset.

Application

Applicants may apply online at www.utechjamaica.edu.jm or obtain application forms from the Admissions & Enrolment Office. Applications should be completed and returned on or before the Deadline given by the university and be addressed to:

Admissions & Enrolment Office
University of Technology, Jamaica
237 Old Hope Road
Kingston 6

For any queries, please contact:

Phone: (876)-927-1680-8

Students' Affairs Office
Ext. 2153 & 2163 - 2165

Programme Director
Ext. 3642

Administrative Support:
Ext. 2159



University of Technology,
Jamaica



FACULTY OF ENGINEERING & COMPUTING
School of Computing & Information Technology (SCIT)



BACHELOR OF SCIENCE IN COMPUTING