Entry Requirements

Bachelors of Science in Surveying & Geographic Information Sciences (BSc SGIS)

Level 1 Requirements

5 CSEC/GCE O-Level passes including English Language, Maths and 3 other approved subjects. Preferred subjects are : Physics, Geography, Technical Drawing, Information Technology, Computer Science, Elementary Surveying (offered by some secondary schools as a CSEC equivalent), Additional Mathematics, and Engineering Science.

PLUS

Level 2 Requirements

Four (4) CAPE units or **Two (2)** A Level in subjects from : Mathematics (pure), Mathematics (applied), Physics, Geography, Information Technology, Computer Science, Technical Drawing / GMED. Other subjects may be considered.

OR

Successful completion of UTech's Prerequisite Course of Study (PCS) with a minimum GPA of 2.30. Entry to the PCS requires the five (5) CSEC or GCE subjects indicated above.

Interview may be required

OR

An Associate Degree in Surveying and Geographic Information Technology (SGIT) with a minimum GPA of 2.70. Successful application using this route, will be advanced placed to level 2 in the BSc SGIS course.

JOB OPPORTUNITIES

- Surveying and Mapping Division of the NLA
- National Environment and Planning Agency
- National Works Agency
- Professional Surveying Firms
- Geographic Information Systems Firms
- Urban Development Corporation
- Research & Teaching
- Positions in other territories in Surveying,
- GIS and related fields.

University of Technology, Jamaica

Faculty of The Built Environment

School of Building & Land Management

CONTACT INFORMATION

University of Technology, Jamaica
Faculty of the Built Environment
School of Building and Land Management (SBLM)

University of Technology, Jamaica
237 Old Hope Road, Kingston 6

Telephone: (876) 927-1680-8
Extensions: 2346 & 2348.
Fax: (876) 702 4935

SGIS

BACHELOR OF SCIENCE (BSC.) IN SURVEYING (LAND) & GIS

Accredited by the University Council of Jamaica

Bachelor of Science Degree in Surveying & Geographic Information Sciences (BSc SGIS)

This is a comprehensive course of study that incorporates several branches of land surveying with newer sub-disciplinary areas within the geospatial spectrum.

The course is **accredited by the University Council of Jamaica (UCJ)** and recognised by professional organisations such as the International Federation of Surveyors (FIG), The Land Surveyors Association of Jamaica, Jamaica's Land Information Council, etc.

The course has for many years successfully produced graduates possessing a wide spectrum of knowledge, skills and competences in Land Surveying, GIS and related fields. Graduates will have developed sufficiently to make valuable contributions to the development of professions in spatial sciences industries. They will have capabilities to work, for example, as practitioners, consultants, managers, educators and researchers.

Geographic Information Science (GIS)

Geographic Information Science (GIS) integrates the logic of the relationship between spatial data with sophisticated software and hardware to create realistic simulation of the real world, to support a wide range of analytical applications.

Hydrographic Surveying

Safe navigation, subaqueous construction and near shore civil works require knowledge of the depth and topography of the water bodies such as seabed. Hydrographic Surveying is the field of study and practice that deals with these activities. Other applications include:- measurement of water current, location of rocks, bars, lights and buoys, determination of channel depth and preparation of charts, etc.

Cadastral Surveying

This is a major area of surveying operations in Jamaica and the Caribbean and is concerned with the legal determination of boundaries and areas of land properties.

Engineering Surveying

This is an integral part of civil engineering projects. The preparation of initial survey plans for detailed design, setting out of critical points for construction and the measurement and monitoring of civil structures are types of works under this branch of surveying.

Global Navigation Satellite Surveying

The Global Navigation Satellite Surveying (GNSS) utilises the modern technology of navigation and positioning using systems such as GPS. These systems provide autonomous geo-spatial positioning of points using equipment capable of receiving signals from satellites and processing data using computer software.

Course Duration & Programme Content

In the full-time mode, the course is offered over four years. Students desirous of taking less than the full workload may extend their study period for an additional three years.

The course is a mix of theory and practical elements that seek to build professional and practical competencies in the students.

A high degree of participation in field and computer lab practical activities and on-site visits is required of SGIS students.

Students are also required to engage in a structured professional practice and relevant internship best practices in order to develop work-based competencies.