

UNDERGRADUATE | CAVE HILL CAMPUS

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FACULTY OF SCIENCE & TECHNOLOGY

Introduction

Sciences have been taught at the Cave Hill Campus of The University of the West Indies from its inception. Our Academic Staff includes both Caribbean nationals and international Faculty, and our degree programmes are well-respected regionally and internationally.

The Faculty comprises three sections:

- (1) Department of Biological & Chemical Sciences which offers undergraduate & graduate programmes.
- (2) Department of Computer Science, Mathematics & Physics which also offers undergraduate & graduate programmes.
- (3) The Centre for Resource Management and Environmental Studies (CERMES) which only offers graduate programmes.

In the undergraduate B.Sc. programme, courses are offered in all major scientific disciplines, with first year courses also taught at Tertiary Level Colleges in Antigua, St. Lucia, and St. Kitts & Nevis. Students may major in one or two disciplines.

Science graduates may register for research degrees (M.Phil. and Ph.D.) under the supervision of a member of the Academic Staff. The Faculty also offers taught Masters programmes in many fields. CERMES offers a MSc. in Natural Resource and Environmental Management as well as a MSc. in Renewable Energy Management. The Department of Computer Science, Mathematics and Physics offers a series of taught Masters programmes from the discipline of Computer Science, such as the Dip/MSc. Technology Entrepreneurship and the MSc. Information Technology. Additionally, the Dip/MSc. Biosafety is offered by the Department of Biological and Chemical Sciences.

The research interests in the Faculty are diverse, addressing both fundamental questions in science as well as finding scientific solutions to real life problems facing Caribbean people. Faculty members also constitute an unmatched source of knowledge to Governments, Non-Governmental Organisations and the Private Sector, in providing technical expertise and advice.

Through collaboration with the Caribbean Institute for Meteorology and Hydrology, the Faculty offers a Major in Meteorology within the B.Sc. degree.

QUALIFICATIONS FOR ADMISSION

Entry Requirements

- 1) Lower Level Matriculation: Four-Year Programme
- Minimum of five (5) CSEC /CXC General Proficiency (Grades I-III) or GCE O-Level subjects (Grades A - C)
- Compulsory English Language and Mathematics
- Two approved science subjects
- An approved science subject and Additional Mathematics.

List of Approved Science CSEC/CXC General Proficiency/GCE O-Level Subjects:

- Additional Mathematics
 Computer Science
 - Geography
- Integrated Science

Physics

Biology Chemistry

Information Technology (General)

Full Matriculation: Three-Year Programme 2)

- Minimum of five (5) CSEC/CXC General Proficiency (Grades I-III) or GCE O-Level subjects (Grades A-C)
- Compulsory English Language, Mathematics and two (2) approved science subjects and one (1) other subject
- Passes in at least two 2-unit CAPE subjects (both units at Grade V or better) or equivalent qualification such as GCE A-Level (Grades A - E)
- Have an approved Associate Degree with a GPA of 2.5 (or equivalent) or higher, from a tertiary level institution
- Required qualifications are based on the Major of choice.

List of Approved Science CAPE/GCE A-Level Subjects:

- Applied Mathematics*
 - Environmental
- Physics

Biology

- Science
- Pure & Applied

Botany

- Further Mathematics*
- Mathematics

Chemistry

- Geography
- Pure Mathematics*

- Computer Science
- Geology

- Zoology
- * The following cannot be counted together:
 - (i) Further Mathematics with Applied Mathematics CAPE/GCE A-level
 - (ii) Mathematics (Pure and Applied) with Pure Mathematics or Applied Mathematics at CAPE/GCE A-Level.
- 3) Students must satisfy the Department's requirements.

Three Year B.Sc. Science Degree

Minimum CAPE (or equivalent) Qualifications for Entry

B.Sc. Majors	Required CAPE Passes
 Biochemistry Biology¹ Ecology Microbiology 	Biology and Chemistry
• Chemistry ¹	Chemistry and another subject
 Computer Science¹ Information Technology (IT) 	Mathematics and another subject
 Mathematics¹ 	Pure Mathematics and another subject
 Electronics Physics Meteorology	Mathematics and Physics
Environmental Science	Any two of the following: Mathematics, Chemistry, Biology, Environmental Science
Software Engineering	Mathematics and one approved Science subject
B.Sc. Options ²	Required CAPE Passes
 Computer Science (or IT) and Accounting Computer Science (or IT) and Management Computer Science (or IT) and Economics 	Mathematics and another subject
Mathematics and EconomicsMathematics and Accounting	Pure Mathematics and any another subject
Science and ManagementScience and Psychology	Requirements as for the Science Major (e.g to Major in Biology, Biology and Chemistry are required)

¹ Double Major also offered. ² Numbers taking these options are restricted.

The departments within the Faculty of Science and Technology offers the following majors, double majors and minors:

Department of Biological and Chemical Sciences

Majors:

- Biochemistry
- Biology
- Ecology
- Microbiology
- Chemistry
- Environmental Science

Double Majors:

- Biological Sciences
- Chemistry

Minors:

- Biochemistry
- Biology
- Ecology
- Microbiology
- Chemistry
- Environmental Science

Department of Computer Science, Mathematics and Physics

Majors:

- Computer Science
- Information Technology
- Software Engineering

Double Majors:

Computer Science

Minors:

- Computer Science
- Information Technology

In association with the Faculty of Social Sciences, the options of a Double Major combining Computer Science or Information Technology with Accounting or Management are also offered to select students.

NOTES

GENERAL REGULATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE (B.Sc.)

All students of the University are subject to the General Regulations for Students approved by the Senate of The UWI.

Complete academic records are essential to be considered for entry.

SAFETY SEMINAR FOR NEW STUDENTS

All incoming students to the Faculty of Science & Technology are required to attend a mandatory Safety seminar usually held during the registration week.

Electronics

- Major in Electronics
- Minor in Electronics
- Minor in Medical Electronics

Mathematics

- Major in Mathematics
- Double Major in Mathematics
- Minor in Mathematics
- Minor in Statistics

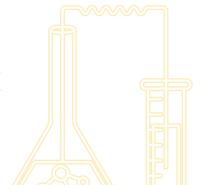
Physics

- Major in Physics
- Minor in Physics

Caribbean Institute for Meteorology and Hydrology

Through our affiliate institution, the Caribbean Institute for Meteorology & Hydrology, the following programmes are offered:

- Major in Meteorology
- Minor in Meteorology





Programmes Offered in conjunction with other faculties

Programmes with the Faculty of Social Sciences

Under an agreement with the **Faculty of Social Sciences**, a limited number of students will be allowed to pursue the following cross-faculty programmes, subject to timetable restrictions:

- Computer Science and Accounting
- Computer Science with Accounting
- Computer Science and Economics
- Computer Science with Economics
- Computer Science and Management
- Computer Science with Management
- Information Technology and Accounting
- Information Technology with Accounting
- Information Technology and Economics

- Information Technology with Economics
- Information Technology and Management
- Information Technology with Management
- Mathematics and Economics
- Mathematics with Economics
- Mathematics and Accounting
- Mathematics with Accounting
- Science Major and Management
- Science Major with Management

Programmes with the Faculty of Humanities & Education

Under an agreement with the **Faculty of Humanities & Education**, a limited number of students will be allowed to pursue the following programmes, subject to timetable restrictions:

- Science Major and Psychology Major
- Science Major with Psychology Minor
- Science Major with Spanish Minor
- Science Major with Chinese Minor
- Science Major with Education Minor

The Psychology Major comprises 30 credits of specified advanced courses, while the Psychology and Spanish Minor each comprise 15 credits of specified advanced courses. In addition, students must satisfy the requirements of their Science Major and complete a minimum total of 93 credits.

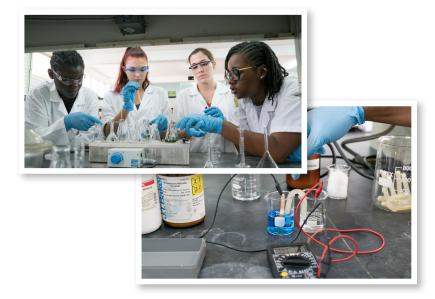
INTERNATIONAL EXCHANGE/ STUDY ABROAD PROGRAMME

The exchange programme allows students to spend one or two semesters abroad at overseas universities in order to broaden their experience, understanding and perception. Such exchanges typically take place in Year 2 of the BSc degree.

Note: The application deadline is December 1st of the year prior to the exchange.

While at exchange universities, students of The University of the West Indies continue as regular full-time students of The UWI. They are required to pay the normal tuition and other fees as stipulated by The UWI, and pursue matching and approved courses for credits. Credits earned abroad are transferred to The UWI and applied to regular Faculty degree requirements, in accordance with Regulation 38.

Study abroad requirements may vary. Interested students are advised to consult the International Exchange/Study Abroad brochure available from the Admissions Section of Student Affairs. This contains a current list of Universities with which The UWI has entered into cooperative arrangements for study exchanges. Programmes of study must be pre-approved by the Dean.



PROFICIENCY TEST FOR ALL UWI APPLICANTS

All applicants to The UWI, unless exempted, are required to take an English Language Proficiency Test (ELPT). **Applicants** must register and pay the exam fee before the day of the ELPT. You can pay at the Cashier, 1st Floor of the Hilary McDonald Beckles Administration Complex. *Note:* Payments are NOT accepted on the day of the ELPT.

Further information regarding the ELPT can be found at https://www.cavehill.uwi.edu/admissions/elpt.aspx.

ENGLISH LANGUAGE PROFICIENCY TEST (ELPT)

You must present valid picture identification, e.g. a national identification card, passport or driver's license, along with receipt of payment to gain entry to the ELPT. The ELPT is normally scheduled in April and again in August for late applications.

Applicants who possess ONE of the following are exempted from taking the ELPT:

- Grade 1 in CXC / CSEC General Proficiency in English 'A'
- Grade 1 or 2 in the CAPE Communication Studies
- Grade A in the Cambridge GCE 'O' Level English Language
- Grade A or B in the Alternative Ordinary (AO) General Paper
- Applicants to the Faculty of Law or the Faculty of Medical Sciences,
 who already hold a degree or a pass in English Literature at Advanced Level
- Applicants who are graduates of the Barbados Community College with Grade B or higher in CORE 100 English and Communication
- Applicants with Grade B or above in a College English Course from an approved University.

Science and Technology students who pass or are exempted from the ELPT must complete ONE of the following Level 1 English Language Foundation courses:

- FOUN 1006 Exposition for Academic Purposes OR
- FOUN 1008 An Introduction to Professional Writing

ENGLISH LANGUAGE PROFICIENCY TEST (ELPT) cont'd

Failure in the ELPT Test: Those who fail or who did not take the Test (and do not possess one of the exemptions listed), are required to register and pass the course FOUN 0100 – Fundamentals of Written English BEFORE attempting one of the Level 1 English Language Foundation courses. FOUN 0100 is coordinated within the Academic Literacies Programme of the Faculty of Humanities and Education and is presently offered in both semesters and Summer, for a fee.

Students in the Faculty of Science and Technology can do **either** of the Foundation Courses, *FOUN 1101* (Caribbean Civilisation) **OR** *FOUN 1301* (Law, Governance, Economy & Society.

Note:

- * Both FOUN 1006 and FOUN 1008 cannot be taken together students must choose one or the other.
- * A student may substitute *FOUN 1101* or *FOUN 1301* with a Level 1 Foreign Language course.
- * FOUN 1210 (Science, Medicine and Technology in Society) is not normally offered to students in the Faculty of Science & Technology.



INTERNATIONAL ENTRANCE QUALIFICATIONS

We consider a wide range of qualifications for entry. Here is a list of the overseas qualifications which are eligible for normal matriculation for admission to our degree programmes.

- Holders of the Ontario Secondary School Diploma (OSSD) Grade 12, with an overall Grade of at least 60% or holders of equivalent Canadian qualifications
- Holders of the International Baccalaureate
- Holders of the Dutch qualifications VWO/Associate Degree and HAVO/MBO4
- SAT: Lower Matriculation Students should present an acceptable high school grade transcript with a minimum GPA of 2.5 and a minimum score of 1050 for SAT 1, for entry to four-year programmes
- **SAT:** Normal Matriculation Students should present an acceptable Grade 12 high school transcript with a minimum GPA of 3.0 and a minimum score of 1200 for SAT 1, for entry to **three-year** programmes.

You are required to request that your school/college transcripts be sent directly to the Student Affairs (Admissions) section. You should also note that complete academic records are necessary, showing actual grades in courses/subjects, and an overall GPA. If transcripts and relevant documents are in a language other than English, notarised translations are required. Course descriptions are essential, particularly if you are applying for exemptions.

If you hold other foreign qualifications they must be assessed through the Barbados Accreditation Council or World Education Services (WES), after which the results should be forwarded to the Admissions Office. If your qualifications are accepted, the originals or certified copies of your certificates must accompany your application forms. If certified copies are submitted, you must show the original certificates at the time of registration.



Faculty of Science and Technology

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Student Affairs (Admissions)

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