

PROGRAMME DESCRIPTION

The BSc. in Science and Education is designed to prepare competent science and mathematics teachers for the education system at the upper secondary levels (CSEC and CAPE).

The curriculum will equip graduates with in-depth knowledge of two pure science subjects as well as provide the specific techniques, skills and teaching experience necessary for them to become effective educators.

Graduates will be more analytical in their approach to the teaching of mathematics and science

PROGRAMME GOALS & OBJECTIVES

The programme is designed to:

1. produce graduates with the requisite skills and attitudes necessary for the effective teaching of Science and Mathematics at CSEC and CAPE levels.
2. assist graduates to develop an awareness and understanding of the importance of science education in national development.
3. prepare graduates capable of critical thinking, problem solving, decision making and conducting research.
4. train graduates to appreciate and use technology that will enhance the teaching and learning process
5. prepare teachers of science subjects who will provide the appropriate quality leadership, administration and supervision of science programmes in the education system.
6. provide graduates with skills in curriculum planning, development, implementation and evaluation of science courses.

PROGRAMME DESIGN

The BSc. in Science and Education degree consists of a double science major along with supporting education courses and electives. The two science majors will be selected from Biology, Chemistry, Mathematics or Physics. The degree consists of 137 credits completed over eight (8) semesters. This includes two supervised periods of Teaching Practice in Year 3 and Year 4.

CURRICULUM

YEAR 1 - SEMESTER 1 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Academic Writing 1	-	3	3
Information Technology	2	3	3
Foundations of Education	3	-	3
Introduction to Psychology	3	-	3
College Mathematics 1B	4	-	4
School observations			
Community Service Programme	-	-	1
	15	3	17

YEAR 1 - SEMESTER 2 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Learning Theories & Practice	3	-	3
Adolescent & Adult Psychology	3	-	3
Science Major – 1b	3	3	4
Science Major – 2b	3/4*	3/0*	4
Introduction to Calculus			
	14/15	6	16

YEAR 2 - SEMESTER 1 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Academic Writing 2	3	-	3
Instructional Technology	2	3	3
Science Major – 1b**	3	3	4
Science Major – 2b	3/4*	3/0*	4
Science Major – 1c	3	3	4
Science Major – 2c	3/4*	3/0	4
	17/19*	12/6*	22

YEAR 2 - SEMESTER 2 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Science Major – 1d	3	3	4
Science Major – 2d	3/4*	3/0*	4
Instructional Methods	2	3	3
Classroom Behaviour Management	1	2	3
	11/12*	11/6*	16

YEAR 3 - SEMESTER 1 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Assessment in Education	3	-	3
University Elective	3	-	3
Science Major – 1e**	3	3	4
Science Major – 2e	3/4*	3/0*	4
Teaching practice 1 (2 wks.)	-	-	1
	12/13*	6/3*	15

YEAR 3 - SEMESTER 2 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Science Major – 1f	3	3	4
Science Major – 2f	3/4*	3/0*	4
Science Major – 1g	3	3	4
Science Major – 2g	3/4*	3/0*	4
Curriculum Planning & Dev.	3	-	3
University Elective	3	-	3
Research Methods	3	-	3
	18/20*	12/6*	22

YEAR 4 - SEMESTER 1 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
University Elective	3	-	3
Science Major – 1h	3	3	4
Science Major – 2h	3/4*	3/0*	4
	9/13*	6/3*	11

YEAR 4 - SEMESTER 2 Course	Course Hrs/Wk		
	Lec.	Prac.	Cr.
Teaching Practice 2 (8 wks)	-	-	4
Integrative Study	-	-	3
Science Major – 1h	3	3	4
Science Major – 2h	3/4*	3/0*	4
	6/7*	6/3*	15

** Student chooses two majors from Biology, Chemistry, Physics and Mathematics. a-h refers to courses in the specific science major.

ENTRY REQUIREMENTS

In addition to passing a final selection interview, the applicant should satisfy the following requirements:

- A minimum of five (5) CSEC General proficiency levels 1, 2 or 3 (3 as of June 1998) or GCE O'Level A, B & C in English Language, Mathematics and two science subjects relevant to areas of specialization and any other subject.
- Applicants with other types of academic qualifications will be evaluated in accordance with the University's regulation on academic equivalency.
- Persons 25 years of age and above who are not eligible for admission under the normal entry requirements outlined above may apply for MATURE ENTRY by submitting a portfolio attesting to their attainments and/or relevant experience.

CERTIFICATION

On successful completion of the programme, graduates will receive the Bachelor of Science Degree in Science and Education.

APPLICATION

Application forms are available from the Admissions Office. Applications should be completed and returned on or before the deadline (stated on the annual brochures) and be addressed to

**The Admissions Office
University of Technology, Jamaica
237 Old Hope Road
Kingston 6**

Phone: (876) – 927-1680 – 8 or
FAX: (876) 927-1925, (876) 977-4388

Email: prospectinfo@utech.edu.jm

Visit our website: www.utechjamaica.edu.jm

Any further queries can be addressed to:

**The Programme Director
Science & Education Degree
University of Technology, Jamaica
237 Old Hope Road
Kingston 6**

Fax: (876) 927-1699
Phone: (876) 927-1680 ext. 2365



**University of
Technology,
Jamaica**

**Faculty of Science and Sport
&
Faculty of Education and
Liberal Studies**



Bachelor of Science Degree

In

Science and Education