



## **BSc BIOLOGY WITH EDUCATION (63 Advanced Credits)**

### **Programme Outline**

The **BSc Biology with Education** is offered in conjunction with the **Faculty of Humanities and Education (FHE)**. Please contact **Dr. Marcia Rainford**, FHE at 927-0221 regarding the selection of Education Courses.

**Part 1:** A minimum of 24 credits from Level 1, 18 of which must be FST courses and must include:

BIOL1017	Cell Biology
BIOL1018	Molecular Biology and Genetics
BIOL1262	Living Organisms I
BIOL1263	Living Organisms II

In addition, the FST Level I courses MICR1010 & BIOC1020 (3 credits), one in each semester, are highly recommended.

A total of **63** credits from **Part II** which must include:

BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
BIOL2404	Molecular and Population Genetics
BIOL2406	Eukaryotic Microbiology
BIOL2407	Biological Evolution
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

## **BEd SCIENCE EDUCATION (Biology Content)**

**..AVAILABLE THROUGH THE SCHOOL OF EDUCATION, FHE..**

### **Year 1 (18 credits over 2 Semesters)**

BIOL1017	Cell Biology
BIOL1018	Molecular Biology and Genetics
BIOL1262	Living Organisms I
BIOL1263	Living Organisms II.

Plus 6 credits from other Faculty courses

A total of **30** credits from **Part II** which must include:

AGSL2401	Management of Soils
BIOL2401	Research Skills and Practices in Biology OR
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
BIOL2404	Molecular and Population Genetics
BIOL2406	Eukaryotic Microbiology
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

## **BSc IN ENVIRONMENTAL BIOLOGY (63 Advanced Credits)**

### **Programme Outline**

The **BSc in Environmental Biology** cannot be taken with any other major or minor because of the number of credits required which are as follows:

#### **Level 1**

A minimum of 24 credits from Level I, 18 of which must be FST courses and must include:

BIOL1017	Cell Biology
BIOL1018	Molecular Biology and Genetics
BIOL1262	Living Organisms I
BIOL1263	Living Organisms II

A total of **63** credits from **Part II** which must include:

#### **Level 2 (30 credits as below)**

BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
BIOL2404	Molecular and Population Genetics
BIOL2406	Eukaryotic Microbiology
BIOL2407	Biological Evolution
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

#### **Level 3 (33 credits from below)**

BIOL3400	Issues in Conservation Biology
BIOL3406	Freshwater Biology
BIOL3407	Oceanography
BIOL3408	Coastal Ecosystems
BIOL3409	Caribbean Coral Reefs
BOTN3405	Plant Ecophysiology
ZOOL3408	Sustainable Use of Marine Fishable Resources
ZOOL3409	Aquaculture

#### **EITHER**

BOTN3406 Tropical Forest Ecology

#### **OR**

ZOOL3403 Entomology

#### **Plus one (1) other advanced DLS course, and either**

BIOL3412 Internship

#### **OR**

BIOL3413 Biology Project

## **BSc IN EXPERIMENTAL BIOLOGY (63 Advanced Credits)**

### **Programme Outline**

The **BSc in Experimental Biology** cannot be taken with any other major or minor because of the number of credits required which are as follows:

#### **Level 1**

A minimum of 24 credits from Level I, 18 of which must be FST courses, and must include:

BIOL1017	Cell Biology
BIOL1018	Molecular Biology and Genetics
BIOL1262	Living Organisms I
BIOL1263	Living Organisms II

A total of **63** credits from **Part II** which must include:

#### **Level 2**

BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
BIOL2404	Molecular and Population Genetics
BIOL2406	Eukaryotic Microbiology
BIOL2407	Biological Evolution
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

#### **Level 3**

#### **At least 33 credits of final year courses**

Taken from the three groups of courses below with a minimum of 3 credits from any one group, and inclusive of

#### **EITHER**

BIOL3413 Biology Project

#### **OR**

BIOL3412 Internship

#### **GROUP A**

BIOL3402	Biology of Fungi**
BIOL3403	The Biology of Soil
BIOL3404	Virology
BIOL3405	Pest Ecology and Management

#### **GROUP B**

BOTN3401	Principles of Plant Biotechnology
BOTN3402	Introduction to Plant Breeding
BOTN3403	Fundamentals of Horticulture
BOTN3404	Economic Botany
BOTN3405	Plant Ecophysiology

#### **GROUP C**

ZOOL3403	Entomology
ZOOL3404	Parasitology
ZOOL3405	Vertebrate Biology
ZOOL3406	Immunology
ZOOL3407	Human Biology

\*\*Not offered this academic year