

PART I

PRELIMINARY LEVEL (6 credit courses)

- BIOL0011 Preliminary Biology I  
BIOL0012 Preliminary Biology II

LEVEL 1

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

PART II

LEVEL 2

- BIOL2164 Principles of Molecular Biology  
BIOL2401 Research Skills and Practices in Biology  
BIOL2402 Fundamentals of Biometry  
BIOL2403 Principles of Ecology  
BIOL2406 Eukaryotic Microbiology  
BIOL2407 Biological Evolution  
BIOL2408 Diving for Scientists (Summer)  
BOTN2401 Plant Form and Systematics  
BOTN2402 Physiology of Plants  
ZOOL2403 Maintenance Systems in Animals  
ZOOL2404 Coordination and Control in Animals

LEVEL 3

- BIOL3400 Issues in Conservation Biology  
BIOL3402 Biology of Fungi \*\*  
BIOL3403 The Biology of Soil  
BIOL3404 Virology  
BIOL3405 Pest Ecology and Management  
BIOL3406 Freshwater Biology  
BIOL3407 Oceanography  
BIOL3408 Coastal Ecosystems  
BIOL3409 Caribbean Coral Reefs  
BIOL3410 Water Pollution Biology  
BIOL3411 Research Project (6 credits, 2 Semesters)  
BIOL3412 Internship  
BIOL3413 Biology Project  
BOTN3401 Principles of Plant Biotechnology  
BOTN3402 Introduction to Plant Breeding  
BOTN3403 Fundamentals of Horticulture  
BOTN3404 Economic Botany  
BOTN3405 Plant Ecophysiology  
BOTN3406 Tropical Forest Ecology  
BOTN3407 Post-Harvest Technology\*\*  
ZOOL3063 Comparative Animal Physiology  
ZOOL3403 Entomology  
ZOOL3404 Parasitology  
ZOOL3405 Vertebrate Biology  
ZOOL3406 Immunology  
ZOOL3407 Human Biology\*\*  
ZOOL3408 Sustainable Use of Marine Fishable Resources  
ZOOL3409 Aquaculture\*\*  
ZOOL3410 Advanced Topics in Animal Science

\*\* Not offered 2022/2023



REQUIREMENTS FOR THE AWARD OF A DEGREE

In all cases a degree is granted for successful completion of courses such that the student has obtained, at minimum, the following:

Level 1 Compulsory	24 credits
Levels 2 and 3	60 credits
Foundation courses	9 credits
<b>Total</b>	<b>93 credits</b>

Taken from Faculty of Science and Technology (FST) Regulations and Syllabuses.

For more information, contact:

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THE UNIVERSITY OF THE WEST INDIES  
MONA CAMPUS, JAMAICA, WEST INDIES

DEPARTMENT OF  
LIFE SCIENCES



BSc Programmes  
2022-2023

- .: BIOLOGY WITH EDUCATION
- .: ENVIRONMENTAL BIOLOGY
- .: EXPERIMENTAL BIOLOGY

## 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**. The biology courses are presented below, however students should consult the Faculty of Humanities and Education 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:

BIOL2164	Principles of Molecular Biology
BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
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

**Please consult the Faculty of Humanities and Education regarding the selection of Education Courses.**

## BSc IN ENVIRONMENTAL BIOLOGY (60 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 sixty (**60**) credits from **Advanced courses** which must include:

#### Level 2 (30 credits)

BIOL2164	Principles of Molecular Biology
BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
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:

##### Twelve (12) core credits

BIOL3400	Issues in Conservation Biology
BIOL3406	Freshwater Biology
BIOL3408	Coastal Ecosystems
BOTN3405	Plant Ecophysiology

##### And at least eighteen (18) credits from:

BIOL2408	Diving for Scientists
BIOL3402	Biology of Fungi**
BIOL3403	The Biology of Soil
BIOL3407	Oceanography
BIOL3409	Caribbean Coral Reefs
BIOL3410	Water Pollution Biology
BOTN3406	Tropical Forest Ecology
ZOOL3403	Entomology
ZOOL3405	Vertebrate Biology
ZOOL3407	Human Biology**
ZOOL3408	Sustainable Use of Marine Fishable Resources
ZOOL3409	Aquaculture**

##### Either

BIOL3412	Internship
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##### OR

BIOL3413	Biology Project
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## BSc IN EXPERIMENTAL BIOLOGY (60 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.

#### 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 sixty (**60**) **Advanced** credits which must include:

#### Level 2 (30 credits)

BIOL2164	Principles of Molecular Biology
BIOL2401	Research Skills and Practices in Biology
BIOL2402	Fundamentals of Biometry
BIOL2403	Principles of Ecology
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 30 credits from final year courses

Taken from the three (3) groups of courses below with a minimum of 3 credits from each group.

##### GROUP A

BIOL3402	Biology of Fungi**
BIOL3403	The Biology of Soil
BIOL3404	Virology
BIOL3405	Pest Ecology and Management
BIOL3407	Oceanography
BIOL3410	Water Pollution Biology

##### GROUP B

BOTN3401	Principles of Plant Biotechnology
BOTN3402	Introduction to Plant Breeding
BOTN3403	Fundamentals of Horticulture
BOTN3404	Economic Botany
BOTN3405	Plant Ecophysiology
BOTN3407	Post-Harvest Technology**

##### GROUP C

ZOOL3403	Entomology
ZOOL3404	Parasitology
ZOOL3405	Vertebrate Biology
ZOOL3406	Immunology
ZOOL3407	Human Biology**
ZOOL3408	Sustainable Use of Marine Fishable Resources

##### PLUS

BIOL3412	Internship
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##### OR

BIOL3413	Biology Project
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\*\*Not offered this academic year