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
AGSL2401 Management of Soils (not offered 2019/2020)
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
ZOOL2402 Animal Physiology
ZOOL2403 Maintenance Systems in Animals
ZOOL2404 Coordination and Control in Animals

LEVEL 3
AGBU3008 Internship (4 credits, Summer)
AGBU3012 Project (4 credits)
AGCP3406 Fruit Crop Production (not offered 2019/2020)
AGCP3407 Postharvest Technologies
AGSL3001 Irrigation and Drainage Technology (not offered 2019/2020)
BIOL3400 Issues in Conservation Biology
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 (not offered 2019/2020)
BOTN3403 Fundamentals of Horticulture
BOTN3404 Economic Botany
BOTN3405 Plant Ecophysiology
BOTN3406 Tropical Forest Ecology
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

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
- Total: 93 credits

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

For more Information, contact:
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Or visit us online @ www.mona.uwi.edu/lifesciences
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.

**Part II** which must include:

- BIOL2165 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 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)

- 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** (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
- ZOOL3403 Entomology

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

- BIOL3412 Internship

**OR**

- BIOL3413 Biology Project

**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)

- 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 33 credits of final year courses

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

**EITHER**

- BIOL3413 Biology Project
- 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**

**Replaces BIOL2404**