DEPARTMENT OF LIFE SCIENCES, UWI MONA 2021-2022 UNDERGRADUATE COURSES

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 Research Skills and Practices in Biology **BIOL2401 BIOL2402** Fundamentals of Biometry Principles of Ecology BIOL2403 Eukaryotic Microbiology BIOL2406 **Biological** Evolution BIOL2407 Diving for Scientists (Summer) BIOL2408 Plant Form and Systematics BOTN2401 Physiology of Plants BOTN2402 Animal Physiology ZOOL2402 Maintenance Systems in Animals ZOOL2403 Coordination and Control in Animals ZOOL2404 LEVEL 3 **BIOL3400** Issues in Conservation Biology Biology of Fungi ** **BIOL3402** The Biology of Soil BIOL3403 **BIOL3404** Virology Pest Ecology and Management BIOL3405 Freshwater Biology BIOL3406 BIOL3407 Oceanography Coastal Ecosystems BIOL3408 Caribbean Coral Reefs BIOL3409 BIOL3410 Water Pollution Biology Research Project (6 credits, 2 Semesters) BIOL3411 BIOL3412 Internship Biology Project BIOL3413 Principles of Plant Biotechnology Introduction to Plant Breeding ** BOTN3401 BOTN3402 Fundamentals of Horticulture BOTN3403 BOTN3404 Economic Botany Plant Ecophysiology BOTN3405 Tropical Forest Ecology BOTN3406 Post-Harvest Technology BOTN3407 ZOOL3403 Entomology ZOOL3404 Parasitology ZOOL3405 Vertebrate Biology ZOOL3406 Immunology Human Biology ** ZOOL3407 ZOOL3408 Sustainable Use of Marine Fishable Resources ZOOL3409 Aduaculture ** ZOOL3410 Advanced Topics in Animal Science

DEPARTMENT OF LIFE SCIENCES, UWI MONA POSSIBLE CAREERS



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

DEPARTMENT OF LIFE SCIENCES



BSc Programmes 2021-2022

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

** Not offered 2021/2022

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 Molecular Biology and Genetics BIOL1018 **BIOL1262** Living Organisms I Living Organisms II BIOL1263

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** Plant Form and Systematics BOTN2401 **BOTN2402** Physiology of Plants ZOOL2403 Maintenance Systems in Animals Coordination and Control in Animals ZOOL2404

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 Living Organisms I BIOL1262

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

Coordination and Control in Animals ZOOL2404

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:

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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
OR	*
BIOL3413	Biology Project

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
- Living Organisms II BIOL1263

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
OR	
BIOL3413	Biology Project
**Not offered thi	s academic year