

MINOR IN ANIMAL BIOLOGY
(15 Advanced Credits)

Level 1 As specified under Core Courses below.

- Level 2**
ZOOL2403 Maintenance Systems in Animals
ZOOL2404 Coordination and Control in Animals

Level 3
9 advanced level ZOOL credits from the major in Animal Biology syllabus (except ZOOL3410)

MINOR IN COASTAL ECOSYSTEMS
(18 Advanced Credits)

Level 1 As specified under Core Courses below.

- Level 2**
BIOL2403 Principles of Ecology
BIOL2406 Eukaryotic Microbiology
BOTN2402 Physiology of Plants

Level 3
BIOL3408 Coastal Ecosystems
BIOL3409 Caribbean Coral Reefs
BOTN3405 Plant Eco-Physiology

MINOR IN PLANT BIOLOGY
(15 Advanced Credits)

Level 1 As specified under Core Courses below.

- Level 2**
BIOL2403 Principles of Ecology
BOTN2401 Plant Form and Systematics
BOTN2402 Physiology of Plants

Level 3
6 credits from the following:
BOTN3401 Principles of Plant Biotechnology
BOTN3402 Plant Breeding
BOTN3403 Fundamentals of Horticulture
BOTN3404 Economic Botany
BOTN3405 Plant Eco-Physiology

MINOR IN TERRESTRIAL AND FRESHWATER ECOLOGY
(15 Advanced Credits)

Level 1 As specified under Core Courses below.

- Level 2**
BIOL2403 Principles of Ecology
BIOL2407 Biological Evolution

Level 3
BIOL3404 Issues in Conservation Biology
BIOL3406 Freshwater Biology
BOTN3406 Tropical Forest Ecology

CORE COURSES
(All Minors)

Level 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

BIOLOGY WITH EDUCATION OPTION
(63 advanced credits)

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

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

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:

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THE UNIVERSITY OF THE WEST INDIES
MONA CAMPUS

DEPARTMENT OF
LIFE SCIENCES



2014-2015
MAJORS, MINORS, OPTION
Available for
ADVANCED STUDENTS ONLY

Majors	Minors
Animal Biology	Animal Biology
Horticulture	Coastal Ecosystems
Marine Biology	Plant Biology
Plant Biology	Terrestrial and Freshwater Ecology
Terrestrial and Freshwater Ecology	Option Biology with Education

CORE COURSES (For ALL Majors)

Level 1

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

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

Level 2

BIOL2401	Research Skills and Practices in Biology
BIOL2403	Principles of Ecology

MAJOR IN ANIMAL BIOLOGY (39 Advanced Credits)

Level 2

BIOL2402	Fundamentals of Biometry
BIOL2404	Molecular and Population Genetics
BIOL2407	Biological Evolution
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

Level 3

ZOOL2402	Animal Physiology (<i>revised for 2014/2015</i>)
ZOOL3403	Entomology
ZOOL3404	Parasitology
ZOOL3405	Vertebrate Biology
ZOOL3410	Advanced Topics in Animal Science

Plus 3 credits from any of the following

BIOL3404	Virology
BIOL3405	Pest Ecology and Management
ZOOL3406	Immunology

MAJOR IN MARINE BIOLOGY (39 Advanced Credits)

Level 2

BIOL2402	Fundamentals of Biometry
BIOL2406	Eukaryotic Microbiology
BOTN2401	Plant Form and Systematics
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

Level 3

BIOL3407	Oceanography
BIOL3408	Coastal Ecosystems
BIOL3409	Caribbean Coral Reefs
ZOOL3408	Sustainable Use of Marine Fishable Resources
ZOOL3409	Aquaculture

Plus 3 credits from any of the following:

BIOL3410	Water Pollution Biology
ZOOL3405	Vertebrate Biology

The following companion courses are strongly recommended:

BIOL2408	Diving for Scientists (Summer)
BIOL3412	Internship
BIOL3413	Biology Project

DEPARTMENT OF LIFE SCIENCES, UWI, MONA 2014-2015 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

AGSL2401	Soil and Water Management
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
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	Agriculture Internship (4 credits, Summer)
AGBU3012	Research Project (4 credits)
AGCP3406	Fruit and Crop Production
AGCP3407	Post-Harvest Technologies
AGSL3001	Irrigation and Drainage Techniques
BIOL3400	Issues in Conservation Biology
BIOL3403	The Biology of Soil
BIOL3404	Principles of 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	Plant Breeding
BOTN3403	Fundamentals of Horticulture
BOTN3404	Economic Botany
BOTN3405	Plant Eco-Physiology
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

MAJOR IN HORTICULTURE

(42 Advanced Credits)

Courses in bold are unique to this major and compulsory.

Level 2

AGSL2401	Management of Soils
BIOL2402	Fundamentals of Biometry
BIOL2404	Molecular and Population Genetics
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants

Level 3 (21 credits chosen from below)

AGBU3008	Agriculture Internship (4 credits, Summer)
AGBU3012	Research Project (4 credits)
AGCP3406	Fruit and Crop Production
AGCP3407	Post-Harvest Technologies
AGSL3001	Irrigation and Drainage Techniques
BIOL3405	Pest Ecology and Management
BOTN3402	Plant Breeding
BOTN3403	Fundamentals of Horticulture

MAJOR IN PLANT BIOLOGY

(39 Advanced Credits)

Level 2

BIOL2402	Fundamentals of Biometry
BIOL2404	Molecular and Population Genetics
BOTN2401	Plant Form and Systematics
BOTN2402	Physiology of Plants

Level 3

BIOL3403	The Biology of Soil
BOTN3402	Plant Breeding
BOTN3404	Economic Botany
BOTN3405	Plant Eco-Physiology
BOTN3406	Tropical Forest Ecology

Plus 6 credits from any of the following:

BIOL3404	Virology
BIOL3405	Pest Ecology and Management
BOTN3401	Principles of Plant Biotechnology
BOTN3403	Fundamentals of Horticulture

MAJOR IN TERRESTRIAL AND FRESHWATER ECOLOGY (39 Advanced Credits)

Level 2

BIOL2402	Fundamentals of Biometry
BIOL2407	Biological Evolution
BOTN2401	Physiology of Plants
ZOOL2403	Maintenance Systems in Animals
ZOOL2404	Coordination and Control in Animals

Level 3

BIOL3400	Issues in Conservation Biology
BIOL3406	Freshwater Biology
BIOL3410	Water Pollution Biology
BOTN3406	Tropical Forest Ecology
ZOOL3403	Entomology

Plus 3 credits from any of the following:

BIOL3403	The Biology of Soil
BIOL3405	Pest Ecology and Management
BOTN3405	Plant Eco-Physiology