

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 I: 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 (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)

| | |
|----------|--|
| 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 |
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OR

| | |
|----------|------------|
| ZOOL3403 | Entomology |
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Plus one (1) other advanced course, and either

| | |
|----------|------------|
| BIOL3412 | Internship |
|----------|------------|

OR

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|----------|-----------------|
| 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

| | |
|----------|--|
| 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 |
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OR

| | |
|----------|------------|
| BIOL3412 | Internship |
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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