

Subject Overview

L1 Biological Sciences
Physical Sciences
Horticulture

L2 Biology
Chemistry
Physics

L3 Biology
Chemistry
Physics

Level 1 Sciences

1

BS101

Level 1 NCEA Biological Sciences

This course contains topics from Biology and Chemistry. This course includes a field trip and dissections.

Course Components

- Life Processes
- Genetics
- Ecology
- Carbon Cycling
- Bacteria Investigation
- Acids and Bases



16

INTERNAL CREDITS



8

EXTERNAL CREDITS



RECOMMENDATIONS

- Satisfactory results in Year 10 Science

1

PS101

Level 1 NCEA Physical Sciences

This course contains topics from Physics and Chemistry.

Course Components

- Mechanics
- Organic Chemistry
- Electricity
- Investigations into Chemical Reactions
- How properties of metal are linked to their uses in society
- Investigate Linear Relationships



16

INTERNAL CREDITS



8

EXTERNAL CREDITS



RECOMMENDATIONS

- Satisfactory results in Year 10 Mathematics and Science



1**HT101****Level 1 NCEA Horticulture**

This course involves learning about growing plants as a hobby, for money, for food and for landscapes. The material assessed in this course is suitable for a range of student abilities and provides a basis for further study and careers in the horticultural industry.

Course Components

- Practical Gardening
- Plant Propagation Skills (such as cuttings)
- Use of Horticultural Equipment
- Landscaping
- Management Practices

**15****5****INTERNAL CREDITS****EXTERNAL CREDITS****OPEN ENTRY****Biology****2****BI201****Level 2 NCEA Biology**

This course introduces students to the living world that surrounds them. This course covers a broad range of topics that will suit students looking to understand the living world around them to a deeper level.

Course Components

- Ecology
- Earth Spheres
- Microscopes
- Adaptations
- Genetics

**11****8****INTERNAL CREDITS****EXTERNAL CREDITS****RECOMMENDATIONS**

- 12 Credits in BS101

3**BI301****Level 3 NCEA Biology**

This course covers a range of topics, including the relationship between organisms and their environment. It involves a practical study of one animal or a plant species, and a field trip.

Course Components

- Homeostasis
- Practical Investigation
- Socio-Scientific Issue
- Plant and Animal Responses
- Human Evolution

**10****8****INTERNAL CREDITS****EXTERNAL CREDITS****RECOMMENDATIONS**

- 14 Credits in Level 2 Biology

Chemistry

2

CH201

Level 2 NCEA Chemistry

This course involves extending the basic concepts and skills in Chemistry. It is the prerequisite course for Level 3 Chemistry and a strongly recommended course for any students furthering their science education. Chemistry at this level will involve a certain amount of mathematical ability.

Course Components

- Quantitative Analysis
- Identification of Ions
- Bonding Atomic Structure, Bonding and Thermochemistry
- Organic Chemistry
- Chemical Reactivity



10



13



INTERNAL CREDITS

EXTERNAL CREDITS

RECOMMENDATIONS

- 12 Credits in BS101 or PS101

3

CH301

Level 3 NCEA Chemistry

SCHOLARSHIP



This course is an extension of Chemistry 201, where basic concepts are reinforced, and new ones introduced. The course includes atomic structure, aqueous equilibria, and energies of reaction. It is an academic course that leads to university-based courses in many fields and opens the doors to many occupational areas.

Course Components

- Spectroscopy
- Quantitative Analysis
- Thermochemistry
- Organic Chemistry
- Chemical Processes in the world around us.



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15



INTERNAL CREDITS

EXTERNAL CREDITS

RECOMMENDATIONS

- 14 Credits in Level 2 Chemistry

Physics

2

PH201

Level 2 NCEA Physics

This course develops critical thinking skills and provides a good skill base for future study in many areas.

Course Components

- Light and Waves
- Mechanics
- Atoms and Radioactivity
- Electricity
- Practical Investigation



7



16



3**PH301****Level 3 NCEA Physics****SCHOLARSHIP**

This course explores Level 2 topics to a deeper level. Students will be pushed to debate and present their findings.

Course Components

- Light and Waves
- Mechanics
- Modern Physics
- DC and AC Electricity
- Physics Debate
- Practical Investigation

9
16
INTERNAL CREDITS**EXTERNAL CREDITS****RECOMMENDATIONS**

- 14 Credits in Level 2 Physics

INTERNAL CREDITS**EXTERNAL CREDITS****RECOMMENDATIONS**

- 12 Credits in PS101
- Achievement of one externally assessed Mathematics Std



Year 11 Horticulture Garden