

## Type of course – A Level

### Course Overview

Biology involves the study of a varying range of exciting topics; these include molecular biology, the study of ecosystems and microorganisms to humans. Biology is something regularly in the public eye with concepts such as the human genome and the possibilities sequencing this could have on curing disease. Along with all this, students will also be learning more about cell biology, biochemistry, food production and the anatomy of the human body.

### Course Content

#### 1<sup>st</sup> year

1. Biological molecules
2. Cells
3. Organisms exchange substances with their environment.
4. Genetic information, variation and relationships between organisms.

#### 2<sup>nd</sup> Year

5. Energy transfers in and between organisms.
6. Organisms respond to changes in their internal and external environments.
7. Genetics, populations, evolution and ecosystems.
8. The control of gene expression.

### Assessment

#### **Paper 1:**

Topics 1-4

Externally assessed

Availability: May/June

Written exam /Duration 2 hours

35% of A Level grade

#### **Paper 2:**

Topics 5-8

Externally assessed

Availability: May/June

Written exam /Duration 2 hours

35% of A Level grade

#### **Paper 3:**

Topics 1-8 including relevant practical skills

Externally assessed

Availability: May/June

Written exam /Duration 2 hours

30% of A Level grade

#### **A level practical skills to be assessed via**

**endorsement:** a minimum of 12 practical activities to be carried out by each student, which together meet the requirements from the prescribed subject content, published by the department for education. The required practical activities will be defined by each awarding organisation.

### Careers and Opportunities for Further Study

- Biomedical sciences
- Medicine
- Business
- Teaching
- Agriculture
- Physiotherapy
- Ecology
- Forensics
- Civil service
- Science Research
- Optometry
- Pharmacy
- Dentistry

### Entry Requirements

Minimum grade 6 in Science, grade 6 in English Language and grade 6 in Math's