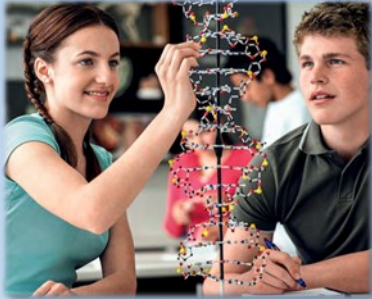


# APPLIED SCIENCE



## Achieving Excellence Together

OCR Level 3 Cambridge Technical Extended Certificate in Applied Science

### Course Description

This academic course will teach theory from biology, chemistry and physics up to A level-equivalent.

The aim of this course is to develop professional and practical skills through carrying out real experiments and research.

Upon completion of the course, you will have a thorough understanding of the many different industries in which science plays an important role. You will have developed a skillset which will enable you to transition smoothly into higher education or the scientific workforce

### Course Units

#### Unit 1 - Science Fundamentals

Taught concepts from biology, chemistry and physics. This unit aims to build upon and extend knowledge from GCSE.

#### Unit 2 - Laboratory Techniques

Introduction to an array for scientific techniques. Application of these techniques can be found across all fields of science.

### Course Units Cont'd.,

#### Unit 3 - Control of Hazards in the laboratory

Researching the relevant legislation and requirements for the different laboratories within the industry.

#### Unit 4 - Microbiology

Techniques used to research microorganisms, and how they are used in food production and medicine.

#### Unit 5 - Product Testing Techniques

The analysis needed of chemicals, food products and pharmaceuticals before they reach the consumer.

#### Method(s) of Assessment

#### Units 1 & 2

Examined by an external written exam.

#### Units 3, 4 & 5

### Progression

This qualification will support the application to a higher education science-related course.

This course will open the door to working in the following industries:

- Healthcare
- Nutrition
- Marine Biology
- Ecology
- Human Biology
- Climate change analysis
- ..... and many more.