

# Btec Level 3

## National Diploma in Applied Science

### Course Introduction

The BTEC National Diploma in Applied Science is a practical, work related course. Students learn by completing projects and assignments that are based on realistic workplace situations, activities and demands.

### Assessment

Each unit is assessed internally using a number of strategies including investigations, practical work, testing and assignments.

Each unit will be given a Pass, Merit or Distinction Grade.

Pass - to achieve the criterion for the pass grade, the learner must demonstrate knowledge of the underlying concepts and carry out simple calculations.

Merit - the merit learner must show an appreciation of underlying principles of written and practical work. They will carry out calculations with a greater degree of accuracy and correctly interpret primary or secondary data.

Distinction - the distinction criteria require the learner to show considerable understanding of the underlying concepts, being able to apply them and use an evaluative approach to their work.

They should be able to carry out more complex calculations.

### Minimum Entry Requirement

CC grades GCSE Science  
A merit grade in  
BTEC First Certificate in Science

The Edexcel Level 3 BTEC National Diploma in Applied Science consists of six core units:

- Unit 1: Fundamentals of Science
- Unit 2: Working in the Science Industry
- Unit 3: Scientific Investigation
- Unit 4: Scientific Practical Techniques
- Unit 5: Perceptions of Science
- Unit 6: Using Mathematical Tools in Science

In addition all students must complete seven specialist units:

- Mathematical Calculations for Science
- Physiology of Human Body Systems
- Physiology of Human Regulation and Reproduction
- Practical Chemical Analysis
- Chemical Periodicity and its Applications
- Industrial Applications of Organic Chemistry
- Diseases and Infections

# Btec Level 3

## Extended Diploma in Applied Science

### Course Introduction

The BTEC National Diploma in Applied Science is a practical, work related course. Students learn by completing projects and assignments that are based on realistic workplace situations, activities and demands.

### Assessment

Each unit is assessed internally using a number of strategies including investigations, practical work, testing and assignments.

Each unit will be given a Pass, Merit or Distinction Grade.

Pass - to achieve the criterion for the pass grade, the learner must demonstrate knowledge of the underlying concepts and carry out simple calculations.

Merit - the merit learner must show an appreciation of underlying principles of written and practical work. They will carry out calculations with a greater degree of accuracy and correctly interpret primary or secondary data.

Distinction - the distinction criteria require the learner to show considerable understanding of the underlying concepts, being able to apply them and use an evaluative approach to their work. They should be able to carry out more complex calculations.

The Edexcel Level 3 BTEC National Diploma in Applied Science consists of six core units:

- Unit 1: Fundamentals of Science
- Unit 2: Working in the Science Industry
- Unit 3: Scientific Investigation
- Unit 4: Scientific Practical Techniques
- Unit 5: Perceptions of Science
- Unit 6: Using Mathematical Tools in Science

In addition all students must complete seven specialist units:

- Mathematical Calculations for Science
- Physiology of Human Body Systems
- Physiology of Human Regulation and Reproduction
- Genetics and Genetic Engineering
- Chemical Laboratory and Techniques
- Chemical Periodicity and its Applications
- Industrial Applications of Organic Chemistry

The Extended Diploma in Applied Science requires a further 6 specialist units to be completed, these are subject to change on a year to year basis.

### Minimum Entry Requirement

C grade in GCSE Core Science and  
B grade in GCSE  
Additional Science