

BTEC National Diploma in Applied Science

Introduction

This course is suitable for anyone who is planning to enter work directly or wishes to proceed to higher education. It is especially suitable for students who need more than one science A-level to progress to a science-based university programme, or for those students who took Applied Science at GCSE. After completing the course, students can pursue careers in areas such as hospital laboratory work, food science, scientific research, and health-related professions.

This two-year course is a nationally recognised qualification equivalent to 3 A-E grade A-levels

In the past, most students from advanced level vocational science courses have gone on to study science-related degree programmes at university.

The teaching for the course will involve a mixture of lecturing, practical work, personal research, group research, discussion, and visits to local businesses. Both the first and second years are an even mix of biology (B), chemistry (C), and physics (P) topics.

Year 1

In the two-year course you will study the equivalent of eighteen units, completing nine units each year.

- Unit 1 Fundamentals of Science
- Unit 4 Scientific Practical Techniques
- Unit 5 Perceptions of Science
- Unit 11 (B) Physiology of Human Body Systems
- Unit 15 (B) Microbiological Techniques

- Unit 17 (P) Electrical Circuits and their Industrial Applications
- Unit 19 (C) Practical Chemical Analysis
- Unit 20 (P) Medical Physics Techniques
- Unit 22 (C) Chemical Laboratory Techniques

Year 2

- Unit 2 Working in the Science Industry
- Unit 3 Scientific Investigation
- Unit 6 Application of Numbers for Science Technicians (1/2 unit)
- Unit 7 Mathematical Calculations in Science (1/2 unit)
- Unit 10 (C) Using Science in the Workplace
- Unit 13 (B) Biochemical Techniques
- Unit 14 (P) Energy Changes, Sources, and Applications
- Unit 16 (C) Chemistry for Biology Technicians
- Unit 18 (B) Genetics and Genetic Engineering
- Unit 25 (P) Electronics for Science Technicians

Assessment

All eighteen units are portfolio-assessed. These internally assessed units will be externally moderated.

Specific Entry Criteria

Grade C in core and additional / applied science (or in two single science subjects) and grade C in English and grade D in maths.