

Applied Science - now offer a single and double award option

Course Type: BTEC Level 3 National Diploma Applied Science (equivalent to 2 A Levels)

BTEC Level 3 National Extended Certificate in Applied Science (equivalent to 1 A level).

Exam Board: Edexcel

Course Entry Requirements: 5 GCSEs - including GCSE Grade 4/4 in combined science for the single award and GCSE Grade 5/5 in combined science for the double award. Grade 4 in Maths or English required.

Why Study Applied Science?

BTEC Applied Science provides a flexible Introduction to the three scientific disciplines. The course is demanding, but has a wide range of science units. You will learn how things work, how science affects the world around you and how it is used in the workplace and in industry.

What Will I Study? Course Content

As part of your course you will study units in biology, chemistry and physics. You will undertake a substantial amount of laboratory practical work which requires writing up and evaluating. The BTEC course is a combination of formal teaching in specialist subjects as well as the research, presentations, assessments, experimental procedure and note taking. In Year 12 you will be working through a variety of units including:

- The principles and applications of science - this covers all science disciplines - biology, chemistry and physics. This unit is externally marked.
- Practical scientific procedures and techniques -you will be introduced to quantitative laboratory techniques, calibration, chromatography techniques and laboratory safety, which are relevant to the chemical and life science industries.
- Scientific investigative techniques (externally marked) - you will cover the stages involved and the skills needed in planning a scientific investigation: how to record, interpret, draw scientific conclusions and evaluate.
- Laboratory techniques and their applications - The unit covers the Importance of health and safety in the workplace, how data is stored and communicated and how organic liquids and solids are made and tested in industry.
- Principles and applications of Science (II) (externally marked) - this unit extends and builds on the disciplines in unit 1 - biology, chemistry and physics.
- Investigative techniques - you will carry out an extensive Investigative project. This develops your research skills and understanding of obtaining scientific literature and provide you the skills to write a project in your chosen subject.

How will I be assessed?

Candidates will have externally marked exams alongside the coursework.