APPLIED SCIENCE

Qualification Level: BTEC Level 3

Qualification Duration: 2 years

Exam Board: Edexcel

Intro:

BTEC Applied Science is a vocational course that is equivalent to one A-Level and gives equivalent UCAS points if you are considering applying for university. It provides students both with practical skills and theoretical knowledge in Biology, Chemistry, and Physics.

The courses are delivered via a range of practical and theory-based sessions with an emphasis on the application of scientific principles across the three sciences. Students produce written reports, presentations, laboratory logs and case studies. Assessment is by internal assessment of laboratory work, written work and presentations and externally set and assessed written exams spaced over the course

Year one content:

Unit 1: Principles of Science 1 - externally assessed **- (90 Guided Learning Hours)**

- Periodicity and Properties of Elements (Chemistry)
- Structure and Function of Cells and Tissues (Biology)
- Waves in Communication (Physics)

Unit 2: Practical Scientific Techniques - internally assessed **- (90 Guided Learning Hours)**

- Titration and Colorimetry (Chemistry)
- Calorimetry and Cooling Curves (Physics)
- Chromatography (Biology)
- Personal Development of Scientific Skills

Year two content:

Unit 3: Scientific Investigation Skills - externally assessed **- (120 Guided Learning Hours)**

- Enzymes in Action (Biology)
- Diffusion of Molecules (Biology)
- Plants and Their Environment (Biology)
- Energy Content of Fuels (Chemistry)
- Electrical Circuits (Physics)

Unit 12: Infection & Disease (Biology) - internally assessed - **(60 Guided Learning Hours)**

- Infectious and Non-Infectious Disease
- Preventing the Spread of Disease
- Managing and Treating Disease
- Human Body Responses to Disease

What do I need to study BTEC Applied Science?

We recommend the following:

Grade 5-4 or above in Combined Science
A pass in GCSE English and Maths

Career and further study:

BTEC Applied Science is a course for students seeking an A-level standard science qualification who wish to continue their education through applied learning and who aim to progress to higher education or apprenticeships and ultimately employment in the applied science sector. A qualification in Applied Science, when combined with the appropriate courses, can lead to many degree-level science courses, such as data science, forensic science, climate science, research science, product development science, and sports science.