

BTEC LEVEL 3 DIPLOMA IN APPLIED SCIENCE

Course Overview for Years 12 -13

Duration of Course: 2 years

Details of course:

This course consists of 8 units equivalent to 2 A-levels delivered over 720 Guided Learning Hours (GLH). There is a combination of internally and externally assessed units which include:

Core:

- 1 Principles and Applications of Science (Externally Assessed Exam)
- 2 Practical Scientific Procedures and Techniques (Internally Assessed Coursework)
- 3 Science Investigation Skills (External Assessed Practical Coursework)
- 4 Laboratory Techniques and their Application (Internally Assessed Coursework)
- 5 Principles and Applications of Science II (Externally Assessed Exam)
- 6 Investigative Project (Internally Assessed Coursework)

Options:

- 15 Electrical Circuits and their Application (Internally Assessed Coursework)
- 11: Genetics and Genetic Engineering (Internally Assessed Coursework)

Qualities and Commitment Expected from the Student:

Students should have a keen and lively interest in Science, the Science Industry and its impact on society. Students will need to have a logical mind, be able to carry out practical work and solve problems by carrying out investigations.

This course is best suited to students that prefer a more vocational, assignment-based approach to learning Science. Students will need to be able to work independently to produce portfolios of work based on a variety of different tasks which will be internally assessed. Students would also need to be able to work in groups and have a solid foundation in theoretical principles and practical skills for the externally assessed units. A commitment to hard work and independent study is essential to meet numerous deadlines throughout the 2 years.

The Future:

A BTEC Diploma in Applied Science will enable you to progress towards many degree courses including radiography, nursing, sports studies, applied science, medical sciences, pharmacology, dental technology, and foundation courses in pharmacy/optometry if coupled with Maths. Alternatively, this qualification can also lead to direct employment in a Science related area such as laboratory work. The Diploma will earn you UCAS points in the same way that A Levels do. (Please note that this course is NOT appropriate if you wish to become a doctor, veterinary surgeon, or dentist.)

TERM	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 12	Principles & Applications of Science I Unit 1 Biology Unit 1 Chemistry Unit 1 Physics		Unit 2: Practical scientific Procedures & techniques Unit 3: Science investigative skills		Unit 10: Biological Molecules and Metabolic Pathways Unit 1 Resit exams Unit 3 Exam Unit 6: Investigative project	
YEAR 13	Principles & applications of science II Unit 5: Biology Unit 5: Chemistry Unit 5: Physics		(Jan Exam Unit 5, Unit 3 Resit exams) Unit 4: Laboratory techniques & their application Unit 8: Physiology of human body systems Unit 6: Investigative Project		Catch Up & Improvements on any units as required Resit Exams as required	