

BTEC NATIONAL CERTIFICATE IN APPLIED SCIENCE

Entry requirements - 4 grade A-C at GCSE including a pass in Science or a pass or above in BTEC First Applied Science.

This course offers students the opportunity to learn about Science through a variety of challenging and stimulating assignments. Throughout the course, students will develop knowledge and skills that will enable them to continue on to higher education or pursue a science related career.

Students will:

- Learn about how science is used in real situations, including workplaces.
- Investigate laboratory safety and regulations affecting scientific activity in an industrial context.
- Learn about the building blocks of the body (cells, tissue and the organs), structure and function of the respiratory and circulatory systems of the human body.
- Learn techniques in analysis, preparation and control of production of chemicals in various industries including foods, pharmaceuticals, agrochemicals and plastics.
- Learn about how to undertake a scientific investigation including how to formulate a hypothesis, collect and analyse data.
- Learn about the electrical circuits and how they are used in industry, e.g. railways, electronic displays.
- Learn about how Science is used in medicine in the form of ultrasound, radiotherapy and magnetic imaging.
- Learn about how Chemists can analyze for traces of illegal substances in athletes, check the nutritional information of food and investigate evidence from crime scenes.