

Why study BTEC Single Engineering?

This course covers a variety of areas such as computer aided design, manufacturing processes, teamwork and much more. As an engineering student you will have access to a variety of equipment and technology as you develop your understanding and appreciation of engineering in the modern world. Engineering offers you a wide range of opportunities at post-18 with ex-students finding employment through apprenticeships and also degree level apprenticeships in both the private and public sector, including Rolls Royce, MoD and BMT and many student have gone direct to university. Subjects studied at University include Robotics, Aerospace engineering, product design, Maths and many others.

What will I study?

There will be a considerable amount of written work, calculations and some practical tasks. Most assessments will take the form of a written report. A small amount of work will be practical, where you will gain skills and knowledge of basic making techniques. You will work as a team with classmates to batch produce a product. You will develop strong CAD skills both 2D and 3D, so it will be important to have your own laptop to work on this at home. As well as the subject content you will gain valuable organisation skills and confidence, that can be used in any future workplace or area of study.

Assessment

The two exams account for two thirds of the final grade. In total there are 6 pieces of coursework.

Unit	Title	Assessment
1	Engineering Principles (Mandatory EXAM)	Exam
2	Delivery of Engineering Processes Safely as a Team	Coursework
3	Engineering Product Design and Manufacture (Mandatory EXAM)	Exam
10	Computer Aided Design in Engineering	Coursework

Study trips, visits and events

Opportunities will include a trip to the Design Museum in London, as well as a visit to CERN to see large-scale computer controlled manufacturing processes. You may also have the opportunity to visit other local companies.

Subject entry requirements

5 in at least one Science plus 5 in Maths.



Student Perspective

Carys studied BTECs in engineering and Applied Science. All of the coursework developed her personal organisation and communication skills. The two subjects complemented each other and her knowledge of science and it's application in engineering made her stand out at her successful interview for an apprenticeship in the food manufacturing industry.