

## Other opportunities

You will also have opportunities to develop your essential life skills of numeracy, communications and IT. Opportunities will also exist for you to improve on your GCSE grades in mathematics and English should there be a need to. As a full-time student you will have an afternoon each week for a range of recreational activities and you will also be encouraged to participate in students' union activities.

### Opportunities for progression

The BTEC Extended Diploma in Manufacturing Engineering programme is excellent for preparing you to pursue many of the careers available in local industries. Some of our former students are now power generation engineers, architectural technicians, etc. Other successful students have progressed to universities in the UK. They have studied degree courses in various branches of engineering including automobile design, CNC machining, civil engineering and marine engineering.

## Contacts

### Entry requirements

Applicants for the course should have at least four C grades at GCSE, including mathematics and science.

If you would like to join us or wish to learn more about the programme, please contact one of the following:

Robin Powell, Course Co-Ordinator  
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## Level 3 BTEC Diplomas in Manufacturing Engineering

(a vocational route to university)



# BTEC Level 3 Diplomas in Manufacturing Engineering

## Units of study

## Assessment

We offer an extended Diploma in Manufacturing Engineering which is equivalent to 3 A levels.

If you have achieved good GCSE results in mathematics, science and English (grade C's or above) and have an interest in engineering, design and technology, then the Level 3 BTEC Extended Diploma in Manufacturing Engineering is for you.

With this qualification you can head to university where there are a wide range of engineering degree courses, but you'll need to check the precise entry requirements for each course at [www.ucas.co.uk](http://www.ucas.co.uk).

This extended diploma is a work-related qualification at advanced level. You will spend time on engineering assignments and learn about how engineering products are designed and manufactured.

You will study nine units during each year of the 2 year programme to complete the eighteen unit qualification.

You will be expected to work both as part of a team and independently. This will help you to develop a responsibility for your own learning and prepare you for studying at university.

The programme of study covers a wide range of subjects ranging from computer aided drafting through to manufacturing (mechanical, electrical and fabrication and welding engineering).

Some of the subjects you will study during the course are as follows.

- Business operations in engineering
- Communications for technicians
- Engineering project (double unit)
- Mathematics for technicians
- Electrical and electronic principles
- Mechanical principles and applications
- Health and safety in the engineering workplace
- Engineering design
- Properties and applications of engineering materials
- Engineering drawing for technicians
- Computer aided drafting in engineering (CAD)
- Mechanical measurement and inspection techniques
- Engineering primary forming processes
- Engineering secondary/finishing processes and techniques
- Fabrication processes and technology
- Welding technology
- Setting and proving secondary processes
- Additional AS level maths (highly recommended for those students intending to go on to university)

Each unit is assessed through work-related assignments which are set and marked by your college tutor. They are then finally externally verified by Edexcel, the awarding organisation.

