

# Engineering



**Guernsey**  
**College**  
of further  
education

# Engineering

## Introduction to the course

We offer a **Level 3 Extended Diploma in Engineering**, which is equivalent to three A Levels. If you have achieved good GCSE results in mathematics, science and English (grade C/4 or above) and have an interest in engineering, design and technology, then this course is for you.

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

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.

## Entry criteria

You will require a minimum of five GCSEs at grade C/4 or above, including mathematics and English language.\*

If your predicted grades fall short of these Level 3 entry requirements, please take a look at our City & Guilds Level 2 Diploma in Engineering brochure. You will be automatically considered for the Level 2 programme if your results do not match your predictions.

## Course outline

You will study a total of 15 units, seven in year one and the rest in year two. 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).

Modules are chosen from:

- Engineering principles (E) (M)
- Delivery of engineering processes safely as a team (M)
- Engineering product design and manufacture (M)
- Applied commercial and quality principles (M)
- A specialist engineering project (M)
- Micro-controller systems (M)
- Calculus to solve engineering problems (M)
- Further engineering mathematics (O)

- Work experience in the engineering sector (O)
- Computer aided design in engineering (O)
- Welding technology (O)
- Electrical installation of hardware and cables (O)
- Electrical power distribution and transmission (O)
- Mechanical behaviour of metallic materials (O)
- Static mechanical principles in practice (O)
- Dynamic mechanical principles in practice (O)
- Principles and applications of fluid mechanics (O)
- Programmable logic controllers (O)
- Computer networks (O)
- Manufacturing secondary machining processes (O)
- Manufacturing primary forming processes (O)
- Manufacturing computer numerical control machining (O)
- Fabrication manufacturing processes (O)

## Progression opportunities

The BTEC Extended Diploma in 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: motorsports, aerospace, electrical, mechanical, civil and marine.

## Assessment method

Level 3 consists of 15 units. One of those units is assessed by exam (E), two through external assessment then a further four make up the mandatory units (M). The remaining eight units are optional choices (O) to make up the 15.

## Course duration

Two years, full-time

## Campus

Coutanchez

*\*Most universities require five GCSEs at grade C/4 or above, including English and maths, as well as a Level 3 qualification.*

*Students who successfully complete all elements of their programme at College will be able to progress onto the next level, eg from Access to Level 1, Level 1 to Level 2, and from Level 2 to Level 3.*



# Additional learning support

**As part of your learning programme, if you have not yet attained a grade C/4 or equivalent in mathematics and English language, you will be required to study a Functional Skill or GCSE in these subjects.**

Students may require additional support for a number of reasons. At the start of your course you will be asked to complete an initial assessment in order for us to identify any additional needs that you may have. During your course, your personal tutor will be able to guide you on how best to access support.

We can offer the following:

- Progress Coaches
- Learner Support assistance (1:1)
- Learner Support assistance (group)
- Learner Support assistance (drop-ins)
- Specialist ESOL teaching
- Study lab sessions
- In-class support
- Special arrangements for exams

For more details or how to apply, please contact:

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## Guernsey College of Further Education

**Chairman** Julian Winsor

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*NB: Course information correct at time of print.*

*Courses offered may be subject to change and will run subject to minimum numbers.*

● 24 October 2018