

# Engineering

## Engineering Level 4 Higher National Certificate (General Engineering) Full Time

### In Brief

#### Start Date / Duration

This course is planning to start in January 2024. This is a one year course.

#### Entry Requirements

- A Level 3 qualification in Engineering (such as a BTEC, T Level or Access to Higher Education) and
- GCSE Maths at a grade 4/C or above
- Experience of working within Engineering would be beneficial
- All applicants will be considered on an individual basis

#### You will achieve

Pearson BTEC Level 4 Higher National Certificate in Engineering (General Engineering)

### Course Overview

The Higher National Certificate in Engineering (General Engineering) has been designed to allow you to develop broad knowledge of the subject area through core units of learning. In addition, optional units allow you to specialise and pursue particular interests within Engineering. This course has the flexibility of allowing you to step off and move into employment, or continue your studies with a Higher National Diploma.

### Course Content

This course will develop your skills and knowledge in Engineering while also preparing you for more intense subject specialisation at a higher level. You will gain a wide range of sector knowledge and practical skills through research, self-study, directed study and workplace activities.

In the Higher National Certificate you will study four core units, which includes a unit assessed by a Pearson-set assignment.

The core units are:

- Unit 1: Engineering Design
- Unit 2: Engineering Maths
- Unit 3: Engineering Science
- Unit 4: Managing a Professional Engineering Project (Pearson-set assignment unit)

You will also study four additional units:

- Unit 5: Renewable Energy
- Unit 8: Mechanical Principles
- Unit 19: Electrical and Electronic Principles
- Unit 22: Electronic Circuits and Devices

On completion of this course you will be able to demonstrate sound knowledge of the basic concepts of engineering. You will be able to communicate accurately and appropriately, developing a range of transferrable skills, such as team working, independent working and problem-solving. You will also demonstrate regard for the ethical responsibilities of the engineer, understanding the importance of sustainability.

## How will I be assessed?

You will be assessed through coursework and assignments. Once unit is an internally assessed Pearson-set unit.

## What Equipment Will I Need?

All equipment will be provided.

## Where will I study?

Science, Technology, Engineering and Maths (STEM) Centre  
Old Mill Lane  
Barnsley  
S70 2LA

## What can I do next?

You could progress in to full time employment or on to the Higher National Diploma [<https://www.barnsley.ac.uk/course/engineering-level-5-higher-national-diploma-full-time/>] qualification.

## How much does the course cost?

This course costs £5995. You can apply for a tuition fee loan to pay for this course.

## Extra information

### Disability and Dyslexia Service (DDS) Higher Education

We offer a service to any student who has a diagnosis of anything persistent or long-term which

might interfere with how they study and manage their day-to-day academic engagement. The service is flexible and shaped around the needs of each individual; it might be consistent support or intermittent support.

For further information please refer to our website. [<https://www.barnsley.ac.uk/higher-education/dds-at-higher-education/>]

## HE Student Finance

As a Higher Education student living in England you may be eligible for the non-means tested Tuition Fee Loan from the Government. For further details go to: [www.direct.gov.uk/studentfinance](http://www.direct.gov.uk/studentfinance) [<http://www.direct.gov.uk/studentfinance>]

You may also be eligible for a Maintenance Loan. See the Government website [<https://www.gov.uk/student-finance>] for up-to-date details.

Students with children or dependant adults may qualify for a Childcare Grant or Adult Dependents' Grant. Students can apply for these at the same time as applying for a Maintenance Loan.

**Remember:** Eligible students will not have to pay tuition fees in advance and can apply for the Maintenance Loan before they start the course.

Apply online at [www.direct.gov.uk/studentfinance](http://www.direct.gov.uk/studentfinance) [<http://www.direct.gov.uk/studentfinance>]

## Contact the Information Unit

For further information please contact our friendly Information Team on +44 (0)1226 216 123 or email [info@barnsley.ac.uk](mailto:info@barnsley.ac.uk) [<mailto:info@barnsley.ac.uk>]

## Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [<https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/>] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [<https://www.barnsley.ac.uk/our-departments/sport/sports-academy/>].

## Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

**Last updated:** 26th September 2023

**Want to apply?**

Visit <https://www.barnsley.ac.uk/apply> to get started

Call us on **01226 216 123**