

Engineering

Engineering for England Higher National Certificate (HNC) - HTQ Full-time

In Brief

Start Date / Duration

This course is planning to start in September and will take one year to complete. Days and times to be confirmed.

Entry Requirements

You should hold:

- a Level 3 qualification – e.g a BTEC or T-Level in a relevant subject area, such as Engineering, Construction or Computing, or A-Levels
- GCSE English and Maths at a grade 4/C or above

Alternatively if you have significant work experience and GCSE English and Maths at grade 4/C or above, you will be considered.

You will achieve

Pearson BTEC Level 4 Higher National Certificate in Engineering for England

Course Overview

The Pearson BTEC Level 4 Higher National Certificate in Engineering for England, part of the South Yorkshire Institute of Technology, offers full-time or part-time study options. The course includes core and specialist units such as Engineering Design, Engineering Maths, and Mechatronics, providing practical skills for complex engineering tasks. Graduates can advance to Higher Education, employment, or pursue the HN Flex pathway for short qualifications.

Course Content

The Higher National Certificate in Engineering for England provides a solid grounding for those wanting to develop their skills and knowledge through practical study.

You will study a mixture of core mandatory and specialist units which meet the requirements of Occupational Standards in order to develop the abilities and confidence needed to lead, manage and respond to a range of complex engineering situations.

Units studied

- Core Mandatory Unit 4001: Engineering Design
- Core Mandatory Unit 4002: Engineering Maths
- Core Mandatory Unit 4004: Managing a Professional Engineering Project (Pearson-set)
- Specialist Mandatory Unit 4006: Mechatronics
- Specialist Mandatory Unit 4008: Mechanical Principles
- Specialist Mandatory Unit 4014: Production Engineering for Manufacture
- Specialist Mandatory Unit 4017: Quality and Process Improvement
- Specialist Mandatory Unit 4020: Digital Principles

Upon completion you may wish to progress on to the Higher National Diploma, other Higher Education courses, or continue through employment. You can also study individual units through the HN Flex pathway, which offers short, bite-sized qualifications.

This course is delivered as part of the South Yorkshire Institute of Technology (SYIoT).
[<https://www.barnsley.ac.uk/syiot/>]



[[https://www.barnsley.ac.uk/courses/higher-technical-](https://www.barnsley.ac.uk/courses/higher-technical-qualifications-htqs/)

[qualifications-htqs/](#)]

How will I be assessed?

There will be a range of assessment methods used through practical application, which may include practical sessions, essays, reports, presentations and projects.

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 can continue studying the Higher Technical Qualification by completing the Higher National Diploma, launching in September 2025. Alternatively, you could study individual HN Flex units and other higher education courses. On completion you will also be able to use your skills and knowledge in work.

How much does the course cost?

Course fees: £6,995* per year for those that enrol in September 2025 (*subject to approval from the Office for Students).

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 visit the Disability and Dyslexia Service (DDS) [<https://www.barnsley.ac.uk/higher-education/dds-at-higher-education/>] web page for more information.

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 and a Maintenance Loan.

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.

Visit the Student Finance page on the Government website [<https://www.gov.uk/browse/education/student-finance>] for further details and to apply.

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>]

Want to join Barnsley Sports Academy and Honeywell 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/barnsley-sports-academy/>] .

Disclaimer

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

Last updated: 16th January 2025

Want to apply?

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

Call us on **01226 216 123**