

Engineering

Engineering Electrical/Mechanical (Mechatronics) Level 3 Full-time

In Brief

Start Date

This two year study programme starts in September.

Entry Requirements

- Four GCSEs at grade 4 or above including English, Maths, and Science at grade 5 or the Level 2 Diploma in Engineering.

You will achieve

Year One: Foundation Diploma Level 3 in Mechanical (Mechatronics)/Electrical Engineering

Year Two: Extended Diploma Level 3 in Mechanical(Mechatronics)/Electrical Engineering

Course Overview

Studying on this programme will give you a broad range of knowledge and skills required for a wide range of exciting careers in engineering. The course is also suitable for individuals who are considering progression to Higher Education.

Course Content

- Machining
- Materials
- Fabricating
- Electronics
- Programmable Logic Controllers (PLCs)
- Microcontrollers
- Maintenance
- Further Maths
- Calculus
- Engineering project
- Engineering design

- Applied commercial and quality principles
- Additive manufacturing processes
- Welding
- Electronic circuit and device
- Analogue electronics

How will I be assessed?

Assessment is through practical and coursework. You will be required to sit three exams.

What Equipment Will I Need?

You will require a ring binder, a calculator, textbook and general stationery.

See what careers are available in the Engineering
[<https://www.barnsley.ac.uk/app/uploads/2023/10/Engineering-careers-2023-24.pdf>] sector. Use
our online careers tool, Career Coach [<https://barnsley.lightcastcc.com/?radius=®ion=Barnsley>]
, to find out what your next steps could be.

Where will I study?

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

What can I do next?

Employment: This course can form the foundations for future study and work as Engineer and other related roles.

Education: Many students continue with higher level qualifications such as a BEng Degree or Higher National Diploma in Engineering.

For career aspirations in engineering please visit <http://educatingengineers.com/career-specialties>
[<http://educatingengineers.com/career-specialties>]

How much does the course cost?

16 – 18 year olds

Full-time Barnsley College students aged 16-18 years old do not have to pay tuition fees.

19+ Students

Aged 19 or over and thinking about further education? You may be eligible for free or reduced course fees . Please refer to our page '[paying for your course.](#)'

Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on +44 (0)1226 216 267.

Extra information

Advanced Learner Loans

This course may be eligible for an Advanced Learner Loan. Contact our friendly Information Team on +44 (0)1226 216 123 or email info@barnsley.ac.uk [mailto:info@barnsley.ac.uk] . about eligibility and how to apply. You can also visit the Advanced Learner Loan [<https://www.barnsley.ac.uk/courses/paying-for-your-course/advanced-learner-loans/>] page.

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 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/barnsley-sports-academy/>] .

Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

Disclaimer

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

Last updated: 12th December 2023

Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started
Call us on **01226 216 123**

