



ENGINEERING SCIENCE

Course Mode	Full-time
Location	Milnthorpe Road Campus (MRC)
Duration	2 Years
Level	3



Course Overview

Engineering is all about looking at the needs of the world, for today and the future, and creating procedures, products, and systems to meet these needs - people who do this are called engineers, and they are skilled in multiple areas. Across the UK, there are nearly 70,000 job opportunities each year for engineers of all kinds, and many of these opportunities will require engineering scientists: people who have an advanced understanding of science, mathematics, and computers. They use their skills to understand discoveries, technologies, and develop solutions to complex problems.

Do you enjoy maths and science? Do you look at technology, machines, and structures, and wonder how they work? Do you want a career where your thinking and problem-solving skills are put to use?

Our Level 3 Engineering Science course concentrates on the fundamental mathematics and science behind modern engineering - mechanics, circuits, thermodynamics, and materials. Modern engineering requires good computer skills, so our course covers this too. You will still learn some basic workshop skills required to undertake an engineering project successfully, but the emphasis is firmly on the science.

This course usually takes place over three days per week for two years. You will be studying for a Pearson BTEC 90 Credit Diploma in the first year and a Pearson BTEC Extended Diploma in the second year. The two-year course is equivalent to 3 A-Levels and is worth up to 168 UCAS points (Triple Distinction*).

This course will give you the skills and knowledge to solve practical problems of an engineering nature. You will spend about 80% of your college time studying theory, and 20% doing practical theory.

First-year topics include:

- Mechanical Principles
- Engineering Design
- Computer Aided Drafting (CAD)
- Mathematics
- Engineering Materials

Second-year topics include:

- Engineering Project
- Further and Advanced Mechanical Principles
- Electrical Technology
- Thermodynamics
- Secondary Techniques

You will also learn about the industry through trips and speakers. In previous years, learners have had the opportunity to take part in a variety of short local visits to the likes of Gilkes, BAE Systems, and Siemens, and international trips to locations such as Brussels, Paris, and Prague.

All of our learners will be given support with their English and Maths skills where relevant to their main course. Those students who have not yet achieved a Grade 4 (or C) at GCSE in these subjects will continue to work towards these important qualifications at a level suited to them. However, students will still have to achieve the stated Entry Requirements before they start the course.

Assessment will be via ongoing written assignments, timed examination, and practical activities throughout the year.

Entry Requirements

For entry onto the Level 3 Engineering Science course, you will need:

- GCSE English, Grade 6 or above
- GCSE Maths (Higher Tier), Grade 6 or above
- GCSE Science subject, Grade 6 or above
- Two more GCSEs at Grade 5 or above

All applicants will require an interview with the course tutor and in some cases, an aptitude test.

NB: Enrolment on this course is dependent on meeting the Entry Requirements stated above.

After your course

With this qualification, you will have the scientific knowledge and mathematical skills to progress to university and study engineering at an undergraduate level. You can also become a Higher Apprentice in engineering, in some areas.

Fees

£3000.00

Course fees are per year. The current fee information is related to the 2019/20 academic year and is subject to change before the start of the course. Fees for 2020/21 will be updated in the Spring Term. There may also be additional costs associated with the course.

This course is funded by the government and may be free if you are:

- Aged 16-18 on 31/08/19
- Aged 19-23 on an Entry Level or Level 1 course with intent to progress to a Level 2 course
- Aged 19-23 on your first full Level 2 or Level 3 course
- Aged 19-23 on your first Level 4 course (if you haven't already got a Level 3 qualification)
- Aged 19+ on Functions Skills or GCSE English or Maths
- Unemployed and in receipt of JSA/ESA(WRAG)/Universal Credit or another eligible state benefit on an Entry Level, Level 1 or Level 2 course
- Member of a low income household & in financial hardship on an Entry Level, Level 1 or Level 2 course