

Overview

Engineering is a massive shortage subject. There are many wide ranging careers within it. Whatever your thoughts on what it is, it is probably that and many, many more.

Careers in Engineering pay significantly more on average than many other subjects.

Course overview

Your objective is prove you can carry out a set of tasks that require a strong understanding of the basics of how to make complex things.

- Draw a series of shapes on paper using precision
- Identify a range of materials and their properties (metals, composites etc)
- Make 2 small metal products with high precision using workshop tools and machinery like lathes.
- Identify a range of processes and be able to explain their advantages and disadvantages. (For example: welding vs bolting parts together)
- Basic maths of area and geometry

Mendip Studio School is in the top 1% for both Design and Engineering for the country.

Assessment method

Examinations: 50%

Coursework: 50% (25% written/25% practical)

The value of Engineering

Engineering is where design, creativity and flair meet science, accuracy and purpose.

Studying this course will be both hands on and make use of your creative designs. There is nothing new that hasn't first been engineered.

The first step is to identify the purpose, the rest is engineering.

Exam board



ncfe.

For more information contact

Mr Lance Bartlett
lbartlett@mendipstudioschool.org.uk

Futures

Once you have mastered the basics of engineering by completing this course, you can go on to specialise in the almost infinite field of engineering. For example:

- Mechanical,
- Chemical,
- Electrical,
- CAD, CAM, CNC,
- Aeronautical,
- Nuclear,
- Renewables,
- Vehicle (boats,cars,bikes),
- Buildings,
- Underground (railways, foundations etc)
- Self employed,
- Products
- Design and build robotics