



Engineering – 3hr Option

Wales High School - Year 9 Subject Options

Subject Content - What will you be doing?

The BTEC Tech award in Engineering is equivalent to a single GCSE, and is made up of 3 Components. After initial lessons introducing the subject and developing workshop and CAD skills, learning will be targeted towards these Components.

Component 1 is called “Exploring Engineering Sectors and Design Applications” and is all about getting to know industrial sectors and how they come together to solve real-life problems. You will explore the sectors, investigate different organisations and discover the engineering design and manufacture processes.

In Component 2 (Investigating an Engineering Product) you will learn about the types of materials, components and processes used to make products, then reproduce and test a product. You will develop planning and self-management skills along the way, and independently carry out your own final project(s).

In Component 3 (Responding to an Engineering Brief) you will build on what you have learned in Components 1 and 2. During the assessment week, you will need to:

- identify the problem, develop a hypothesis and investigate possible solutions
- create a prototype that meets the brief
- record, analyse and evaluate data and outcomes, reflect on how your product meets the brief

Key Points about the Subject

This course is the ideal way for able students to access the new T-Level Engineering course which Wales High School are proud to be piloting from 2022. You would be in the second cohort to access this ground-breaking opportunity in our planned state-of-the-art Engineering centre.

The course is assessed by:

Internal Assessment – Components 1 and 2 are internally assessed (coursework and practical work) and are worth 30% of the qualification each

Component 3 is an externally set task where you answer exam questions and then create an engineered product or carry out an investigation based on a given brief.

This course is about modern engineering and the understanding of product development and materials technology. You will develop practical skills during making tasks and transferable skills in other tasks. You will become proficient in the use of CAD. For this course, it helps if you have a good interest in Maths and Science and an interest in how and why things work and are made.

Who can I speak to for more information?

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