

OCR Cambridge Technical Award Level 3 – Extended Certificate (A-level equivalent)

Exam board: OCR

Entry requirements: Grade 6 or above in Mathematics and Physics

Course overview:

This qualification combines content from Design and Technology, Mathematics and Physics A levels to create a vocational course for those looking to study engineering at higher education or enter employment in a STEM industry. There are six course units taught by subject specialists and assessed both through external exams and internally marked project work. Students earn an A Level equivalent qualification while developing and applying academic knowledge in a practical and vocational setting. This course sits excellently alongside other A levels in STEM subjects and is a solid foundation for those planning to apply to study engineering. Topics include mechanical engineering, electrical engineering, computer aided design and engineering for the environment.

The aims of the course are:

- To give students the underpinning knowledge in Mathematics and Science essential to engineering
- To provide students the opportunity to develop more specialised, engineering focussed skills
- To help students develop an understanding of what it means to be an engineer in today's society
- For pupils to leave with a rounded understanding of engineering, ready to take the next step that is best suited to them

What could this qualification lead to?

- Employment through an apprenticeship in engineering (including Higher Apprenticeships)
- Studying engineering at University
- Direct employment in an engineering role

How is the course assessed?

Unit	Assessment
Mathematics for Engineering	Exam (externa)
Science for Engineering	Exam (externa)
Principles of mechanical engineering	Exam (externa)
Principles of electrical and electronic engineering	Exam (externa)
Computer-aided Design (CAD)	Internally assessed project
Engineering and the environment	Internally assessed project

Subject Leader: Mr M Hodgkinson