

Year 12 Curriculum 2017-19



This document contains information about the A-level and BTEC courses that we have offered students during their time with us in years 12 and 13 between 2017-19.

Rationale

We believe that it is important to encourage all Key Stage 4 students to think ahead and to consider what they might like to do in the future and to realise that the choices they make now will influence the choices they are able to make at the end of their A Levels and in turn, which degree courses, jobs and apprenticeships are open to them at the end of their time with us. Having the right information to hand now will give them more options when the time comes. For some degrees/ jobs, they will need to have studied a particular subject or range of subjects beforehand. It is our job here at the Energy Coast UTC to help our students make decisions that won't make things harder for them in the long term. We need to be sure that the subjects they take equip them for their chosen university course, apprenticeship or employment desire, or of course show off their skills in a particular subject area. And most importantly, if they haven't yet decided what they would like to do in the longer term, we advise them on the subjects that help keep their options open until they do.

The West Coast of Cumbria will see significant investment in the coming decades, with up to 80,000 new jobs being created as our region becomes synonymous with the production of energy and all things related to engineering and construction. Our 'Energy Coast' has a wealth of commercial organisations seeking to employ and train talented young people to meet this demand. Whatever they are interested in, there is sure to be some engineering involved. As an engineer there are a wide range of career pathways open to them including:

- Architecture
- Civil
- Chemical
- Design
- Electrical
- Maintenance
- Military
- Nuclear
- Structural

There are many other career pathways that engineering skills are useful for including Project Management and Commercial Law. Sellafield, for example, remains the world's most complex nuclear facility with a range of operations continuing there such as decommissioning, reprocessing and nuclear waste management and work continues to work towards nuclear new build in this part of the country. These opportunities mean that West Cumbria could enjoy £90 billion of investment in energy related projects and nuclear decommissioning in the next 15 years.

There has never been a better time to focus on engineering as a career and the Energy Coast UTC is perfectly placed to help young men and women to take full advantage of the opportunities that will be available to them when they choose to leave education. Of course, it's hoped that a number of students go on to use their UTC skills locally but at the same time the education they receive will help prepare them to pursue national or even international career opportunities not only in the energy sector but in other engineering or construction industries.

OPTION CHOICES:

Options A	Options B	Options Block C	Options Block D
Engineering 1 (single award)	Engineering 2 (additional award)	Engineering 2 (additional award)	Maths Core (Level 3) *
Construction 1 (single award)	Science Core – Lab Skills (Level 3)	Business Studies	Science Core- Lab Skills (Level 3)*
	Chemistry	Physics	BTEC Sport
		English Literature	Biology
			Maths A-Level

*Level 3 = A-level equivalent course over 2 years

- Engineering 2 – you can only choose Engineering 2 if you have already chosen Engineering 1 in Block A. You can only choose Engineering 2 once, either in Option Block B or Option Block C.
- Science Core Level 3 – you can only choose this option once, either in Option Block B or in Option Block D
- Subjects highlighted in Green = preferred entry requirements are 5 A*-C/9-4 including English and Maths
- Subjects highlighted in Blue = preferred entry requirements are 5 A*-C/9-4 including English and Maths plus B/5 or above in that subject

We also offer GCSE resits in English, Maths and Science to certain students who have worked hard at their first attempt in the summer exams and who are committed to working even harder throughout year 12 to securing grade 4's or above in these important qualifications. Applications to follow a GCSE resit pathway are made in person on GCSE results day in August and involve an interview with student and parent to make sure that this option is the very best pathway for each student.

Employer Project

Students spend two periods per week dedicated to project-based learning. Our projects are inspired by the businesses we work with and combine the engineering and employability skills students need to move successfully to careers in the sector. Many local companies and organisations are involved in developing and delivering the themes of the projects.

Enrichment

Enrichment activities are timetabled for all students every week and are designed to extend students' academic programmes to ensure they have a CV/ personal statement second to none. They also give our students a chance to get involved in a variety of opportunities that they may not have experienced before, such as Mandarin Chinese lessons and the Duke of Edinburgh Award.

PSHE (Personal, Social and Health Education) & CEIAG (Careers Education, Information, Advice and Guidance)

Student welfare and developing appropriate social skills for the workplace is central to our mission at the Energy Coast UTC. Personal development is as important as academic achievement. We treat our students as individuals and support students to maximise their potential. To help them explore their own personal development, we have a series of 'drop-down' afternoons throughout the year which deliver various aspects of the PSHE programme such as relationships education, careers advice and health and safety in the work place. Students are also expected to attend two one-week Work Experience placements during the course of their time in our sixth form.