

Computing / Cyber Security

(BTEC Level 3)

What will I learn about?

A BTEC Level 3 in Computing is a stimulating and challenging programme of study that equips students with the confidence to progress successfully into further study or the world of work.

This qualification has been designed with input from professional partners who want learners to have knowledge and skills in computing, including programming, problem solving, and critical thinking. This BTEC will open up technical careers in IT such as programming and software development or computer engineering.

Students will gain first-hand knowledge of the modern cyber world from our employer partners and practical experience of the latest technologies.

How is the course structured?

Module content includes:

- Principles of Computer Science
- Fundamentals of Computer Systems
- IT Systems, Security and Encryption
- Business Applications of Social Media
- The Impact of Computing
- Relational Database Development
- Planning and Management of Computing Projects
- Software Design and Development Projects
- Object Oriented Programming
- Computer Networking
- Virtualisation
- Systems Analysis and Design
- Digital Graphics and Animation

How will my work be assessed?

- The course is split into modules with each module being assessed upon completion.
- Therefore there will be multiple assessment points throughout the year.
- There are four external assessment modules and these will be assessed in either February or May of each year.
- The attained grades for each module will be combined to give an overall grade for the course.

Where will this course lead to?

Students who gain a BTEC Extended Diploma in Computing are generally well regarded by companies and apprenticeship providers as they will have both good theoretical knowledge and evidence of developing practical skills. If the course is combined with an A-Level in Mathematics, students can progress into studying Computer Science at university.

This subject can lead to careers in Cyber Security, Software Engineering, Games Development, IT Administrator, Project Management, Robotics.



UTC Warrington is part of the UTC Cyber Group, a collective of 20 cyber UTCs across England, supported and guided by leading organisations in this sector.

Schools within the UTC Cyber Group deliver specialist cyber education, either within the curriculum, or as an enrichment activity, and build the capability to deliver a steady pipeline of young students with accelerated technical skills into apprenticeships, degree apprenticeships, and specialist degrees.

The cyber security industry is one of the most exciting, fast-paced, and progressive technological environments in the current economy. It is of critical importance to the safety of our country.