

INFORMATION TECHNOLOGY



OCR Level 3 Cambridge Technical Extended Certificate in IT Overview:

This qualification is designed for you if you want to continue your education through applied learning by developing your knowledge and understanding of the principles of IT and global information systems. Achievement of this qualification can support you to go on and study relevant IT degrees in a Higher Education institution such as Computing and IT, Computing Science, Software Developments, Software Engineering, ICT and Computer Networks or Business Information Systems. There are no formal entry requirements or requirement for any specific prior learning, although you will need a good level of literacy and numeracy skills.

What does this qualification cover?

You'll take five units to achieve this qualification. There are three mandatory units. These are the Fundamentals of IT, Global information and Cyber security. The first two mandatory units provide you with an insight into the IT sector as you investigate the pace of technological change, IT infrastructure, the flow of information on a global scale and important legal and security considerations. The third mandatory unit reflects on important developments in the sector around information security. It requires you to consider how data should be protected and the response of the IT sector to emerging threats such as cyber terrorism. You must then take two of the four optional units. The optional units include Project management, Product development, Systems analysis and design and the Internet of Everything.

All units will help you develop transferrable skills such as communication and problem solving. The optional units encourage the development of time management, research and analytical skills as well as emphasising the need for good written and verbal communication skills.

Is this qualification right for me?

You are advised to have successfully gained Level 2 qualifications in a similar or related subject, but there are no formal entry requirements for these qualifications.

University Recognition

Although this is a new course, (2016) Universities do identify the course as a recognition of entry for higher education in Computing and Technology alongside other recognised qualifications such as A Levels. Some of these universities include Anglia Ruskin University, Arden University, Bath University and Birmingham City University.

UCAS Points awarded

The figures below show the tariff of UCAS points awarded for **Cambridge Technical Extended Certificate in IT:**

Pass (P) = 40.

Merit (M) = 80.

Distinction (D) = 120.

Distinction Star (D) = 140.*

Guided Learning Hours

Cambridge Technical Extended Certificate in IT •
360 GLH – equivalent to one A level in terms of size.

• 2 x 90 and 3 x 60 GLH units – three externally examined units and a choice

of two further units which are centre- assessed and moderated by us.

Big enough to challenge, small enough to care



COMPUTER SCIENCE



Further Questions

If you have any further questions, please contact *Mr R Dyer* (Head of IT)

Assessment

The A Level is wholly assessed towards the end of year 13, and comprises the following modules:

Online Exam (40%) Students answer a series of programming theory questions and then use their coding skills to write and adapt a series of programs and sub- procedures. (150 minutes duration)

Written Exam (40%) Students answer short and extended theory questions on the topics that they have studied throughout the course. (150 minutes duration)

Coursework (20%) Students use their programming skills to solve a real life problem, as well as learning project management skills.

Progression

This course is ideal for those with an aptitude or interest in computers and should be the first choice for those who wish to take the subject further either educationally or as a career option. It also offers significant skill development for those taking the subject for university entry. The skills developed are used directly in many areas of science, maths, engineering and electronics. There is an extremely high demand for students with a computing background.

Entry Requirements

Students considering taking this course should have minimum GCSE grades in Computer Science or ICT at level 6 as long as the ICT GCSE content included programming in a high level text based programming language, and a Level 6 in Maths GCSE. Pupils must have undertaken their GCSE work the year prior to starting the A level Computer Science course.

Contact

For further information please contact Mr. P. Hughes, Head of Computing.

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