Cambridge Technical L3 Information Technology

# Course Overview

* **Exam Board** – OCR
* **Usual Age Range** – 16-19
* **Qualification** – equivalent to 1 A Level
* **Curriculum Time** – Six 50 minute lessons per week in class plus additional work in Independent Learning Time
* **Assessment** – this curriculum is assessed via:
  + 2 x 90 minute exams
  + 1 x 60 minute exam based on pre-release materials provided in advance in cyber security
  + Non-examined coursework – Unit 17 The Internet of Everything: students research current developments, identify how they can be repurposed to extend their potential and present their ideas to a target audience.
  + Non-examined coursework – Unit 8 Project Management: students explain the project management lifecycle and use this to initiate, plan and review a project.
* **Grading** – Distinction \*, Distinction, Merit, Pass, Unlcassified
* **Full specification** - <https://www.ocr.org.uk/qualifications/cambridge-technicals/information-technology/qualifications-at-a-glance/#level-3>

# Curriculum Intent

The **intent** of the Cambridge Technical Information Technology curriculum is to give UTC students an opportunity to develop their knowledge and understanding of the principles of IT and global information systems. The intent is to ensure students have useful knowledge, understanding and skills that can be applied in any Digital Technology setting in their future career and of particular use to students considering a career in computing, games development and cyber security.

The further intent of the Curriculum is to provide students with an insight into the IT sector as they investigate the pace of technological change, IT infrastructure, the flow of information on a global scale and important legal and security considerations. Students will also consider the important development in the sector around information security and how data should be protected and the response of the IT sector to emerging threats such as cyber terrorism.

Students are supported and encouraged to develop their **love of reading** and literacy skills on this course, by reading related cyber security news and articles and by completing regular extended writing activities.

Students are encouraged to develop their **numeracy** on this course by applying the mathematical skills relevant to data storage and units.

Suggested next step **destinations** after completion include relevant IT degrees such as, Computing and IT, Computing Science, Software Developments, Software Engineering, ICT and Computer Networks or Business Information Systems. It also provides access to higher apprenticeship schemes in Computing and IT related areas.

Related **careers** include working as an app developer; network support; systems analyst; cyber security specialist. This intent of the Curriculum is to also provide a good baseline knowledge, skills and understanding for students who undertake an Apprenticeship.

# Study Tips

Students will benefit from additional study of Information Technology:

* Hodder Study Guide –  [https://www.hoddereducation.co.uk/subjects/ict/products/general/my-revision-notes-cambridge-technicals-level-3-it](file:///C:\Users\Karen.Nixon\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\2TTXEF9B\shorturl.at\tyINY)
* Practice Assessments and papers - <https://www.ocr.org.uk/qualifications/cambridge-technicals/information-technology/assessment/#level-3>

Some other useful websites:

* Alternative web based revision site - <https://getrevising.co.uk/>

# Curriculum Overview

The learning in Computer Science (equivalent to *1 A Level*) is sequenced as follows.

*Note: the full Curriculum Plans are available on request to* [*info@nefuturesutc.co.uk*](mailto:info@nefuturesutc.co.uk)

**Key Topics**

* Fundamentals of IT
* Cyber security
* Internet of Everything
* Global information
* Project management

**Year 12:**

**Year 13:**