

WHO TEACHES INFORMATION TECHNOLOGY?

Mr Adelsberg and Mrs Spencer

WHAT CAN I EXPECT?

This qualification is designed for learners who are interested in an introduction to the study of creating IT systems to manage and share information, alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in IT.

Throughout the course you will:

- Learn about information technology systems
- Investigate cyber security
- Create systems to manage information
- Investigate and design a business website

WHERE WILL IT LEAD?

This qualification carries UCAS points and is recognised by higher education providers as meeting admission requirements to many relevant courses. The qualification is equivalent in size to one A Level and supports entry to a wide range of courses such as:

- HND in Business
- BA (Hons) in Computer Arts
- BSc (Hons) in Fashion Buying Management
- BSc (Hons) in Software Development for Animation
- BA (Hons) in Accounting and Finance

WHAT SHOULD I DO NOW?

Why not take a detailed look at the course specification on the Edexcel website?

<https://qualifications.pearson.com/en/qualifications/btec-nationals/information-technology-aaq.html>



CHATHAM & CLARENDON
GRAMMAR SCHOOL

BTEC Level 3 Extended Certificate in Information Technology AAQ

Common student questions
and answers

HAVE I GOT WHAT IT TAKES?

Are you interested in how Information Technology systems are developed to enhance our lives? Would you like to learn more about the technology and how innovations are changing the way we live and work? Do you have an interest in cyber security and how it is changing the way we operate? If so this could be the course for you.

WHY STUDY INFORMATION TECHNOLOGY?

Learners will develop a common core of IT knowledge and study areas such as the relationship between hardware and software that form an IT system, managing and processing data to support business and using IT to communicate and share information through data systems.

You will understand the importance of hardware and software combining to produce systems that deliver an efficient solution to meet user demands, develop data management systems suitable for use in business, examine and create professional business websites and investigate the importance of cyber security in keeping us safe.

WHAT IS THE DIFFERENCE BETWEEN ICT AND COMPUTING?

Information Technology	Computer Science
How computer systems are used.	How computer systems work.
People are central to the subject.	Computation is central to the subject.
Concerned with the development of IT systems, with particular emphasis on the effects of end users.	Concerned with algorithmic thinking, and the ways in which a real-world problem can be decomposed in order to construct a working solution.
Focuses on building a business/application solution mainly by using a combination of available software.	Develops new systems by writing new software.
Emphasis on choosing and evaluating, appropriate software.	Emphasis on principles and techniques for building new software (or hardware). Programming is a central technique.
Information Technology supports human activity.	Computation is a “lens” through which we can understand the natural world, and the nature of thought itself, in a new way.

HOW WILL I BE ASSESSED?

<u>Unit 1</u>	<u>Unit 2</u>
<p>Information Technology Systems 90 Marks 2 hour exam paper</p> <p>Information technology (IT) systems have a significant role in the world around us and play a part in almost everything we do. Having a sound understanding of how to effectively select and use appropriate IT systems will benefit you personally and professionally.</p>	<p>Cyber Security and Incident Management – 90 Marks 2 hour exam paper</p> <p>You will examine the many types of cyber security attacks, the vulnerabilities in networked systems and techniques that can be used to defend an organisation’s networked systems. You will examine scenarios and explain appropriate protection measures for networked systems, also looking at the forensic methods used to investigate cyber security incidents and analyse the suitability of those methods for a given scenario.</p>
<u>Unit 3</u>	<u>Unit 4</u>
<p>Website Development Project marked internally</p> <p>You will review existing websites and investigate development principles prior to the creation of a website for a business.</p> <p>You will review existing websites, commenting on their overall design and effectiveness, use scripting languages such as Hypertext Mark-up Language (HTML), Cascading Style Sheets (CSS) and finally you will reflect on the website design and functionality using a testing and review process.</p> <p>These skills are increasingly more useful in the modern business and workplace environment.</p>	<p>Relational Database Development Project Internally Marked</p> <p>In this unit, you will examine the structure of data and how an efficient data design follows through into an effective database, investigate database management systems (DBMS) and apply practical skills in designing and developing a database within a given DBMS.</p> <p>You will learn to understand how the principles of relational database models, data storage and normalisation are used to create effective relational database solutions then design and develop a database solution to meet client requirements.</p>