

Computing

TYPE OF QUALIFICATION	GCE AS & A level
<ul style="list-style-type: none"> LEVEL OF ENTRY 	5 A*-C passes at GCSE to include: <ul style="list-style-type: none"> B grade GCSE Mathematics B grade GCSE Computing C grade GCSE English
METHOD OF ASSESSMENT	Exam: Year 12 and Year 13
LENGTH OF COURSE & NUMBER OF LESSONS PER CYCLE EXPECTED STUDY EXPECTATIONS	One year AS and one year as A2 5 Lessons per week 5 hours of directed self-study minimum, alongside set homework and revision.

COURSE STRUCTURE:

Level	Unit	Title	Grade Weighting
AS level	Paper 1 (On-screen Exam)	<ul style="list-style-type: none"> Fundamentals of programming Fundamentals of data structures Systematic approach to problem solving Theory of computation 	50% AS level
AS level	Paper 2 (Exam)	<ul style="list-style-type: none"> Fundamentals of data representation Fundamentals of computer systems Fundamentals of computer organisation and architecture Consequences of uses of computing Fundamentals of communication and networking 	50% AS level
A level	Paper 1 (On-screen Exam)	<ul style="list-style-type: none"> Fundamentals of programming Fundamentals of data structures Fundamentals of algorithms Theory of computation Systematic approach to problem solving 	40% A level
A level	Paper 2 (Exam)	<ul style="list-style-type: none"> Fundamentals of data representation Fundamentals of computer systems Fundamentals of computer organisation and architecture Consequences of uses of computing Fundamentals of communication and networking Fundamentals of databases Big Data Fundamentals of functional programming 	40% A level
A Level	Non-exam assessment (Practical project)	Non-exam assessment - the computing practical project	20% A level

WHICH SKILLS WILL YOU ACQUIRE?

- Ability to program as well as annotate/ extend pre-written code
- Ability to answer questions on theoretical knowledge of computer science
- Ability to use the knowledge and skills gained through the course to solve or investigate a practical problem.
- Follow a systematic approach to problem solving

WHICH CAREER PATHWAYS EXIST AFTER STUDYING THIS SUBJECT?

- Software Development
- Systems Analysis and Design
- Network Management and Design
- Database administration
- Web Development
- Forensic Computer Analyst
- Teaching/ Lecturing

WHICH SUBJECTS COMPLEMENT THIS COURSE?

Mathematics, Physics, Business Studies, Economics, Media Studies