

COMPUTER SCIENCE

With an increase of high-profile cyber security threats, the advent of artificial intelligence, and concerns about Big Tech companies and our private data; Computer Science has never been higher on the agenda. The UK is currently experiencing a critical digital skills shortage which is seen as a threat to our economy. Study Computer Science to take advantage of this gap in the jobs market and boost your career prospects.

Specific course entry requirements

College entry to include a minimum GCSE Mathematics grade 6. You do not need to have studied Computer Science at GCSE (please refer to the Entry Requirements section on the college website for further details).

Introduction

The course has an emphasis on abstract thinking, problem solving, programming skills, algorithmic and mathematical reasoning and computational hardware. If you want to learn about programming, networking, how hardware and software operate and enjoy solving complex problems, then you will enjoy this course.

How will I be assessed?

- 80% Examination
- 20% Coursework

In the coursework component students are required to undertake an in-depth programming project to solve a realistic problem which is worth 20% of the marks for the qualification.

What will I study?

You will acquire knowledge and understanding of software, system development, data and applications.

The course will focus on

- Analysis of user requirements, design and implementation of solutions
- Gaining an in-depth knowledge of computing and related topics
- Developing knowledge of programming theory
- Building practical skills in developing software programs
- Using the Visual Basic programming environment

The coursework will:

- Develop your skills in analysis, design, software development, documentation, testing and evaluation of a system
- Create a software solution to a real-world problem

This will include:

- Design, create and test computer programs
- Research and understand computing concepts
- Enhance your ability to work with numbers
- Develop your problem solving skills

Where will this course lead me?

This subject is ideal if you intend to go on to study Computer Science or Software Engineering at degree level. There are many related courses where knowledge of programming is an advantage. It is viewed as a challenging and rewarding subject, similar to Mathematics and Science A levels.