

Computer Science

Course overview

A LEVEL

Level 3

AQA

Computer Science is about problem solving. You will be learning how to write programs and how computers work from an abstract point of view. This course has a mathematical approach and is challenging; you will develop your logical and thinking skills. There will be plenty of practical programming and some opportunities to work creatively in the context of coding.

Entry Requirements

You must have a minimum of 5 grades 9-4 (equivalent to A*-C) at GCSE including English and Maths at grade 4 plus you must also meet the specific subject entry requirements.

Subject Specific Requirements

Grade 6 in a Science GCSE subject and a grade 6 in Maths GCSE.

Popular Subject Combinations

A Level: Maths, Science

BTEC: IT

Possible Enrichment Opportunities

Computer Games Programming
Trip to Bletchley Park

Student name: Sorin Otteana (ex pupil of Grey Court School)

"I very much enjoy Computer Science as it is very challenging and has helped me to develop problem solving skills with various programming tasks, I have also had to produce custom soft ware for real clients."

If you would like further information about this course please contact the admissions team at

Strode's College, Egham, Surrey, TW20 9DR
Email: admissions@strodes.ac.uk
www.strodes.ac.uk

What will I learn?

You will learn how to program in python, from the basics to object oriented programming. We will cover the associated programming concepts and techniques, such as the Turing Machine and Data Structures. This takes up 50% of the course content.

On the theory side, you will learn how different types of data is stored in binary, how networks and the Internet works and database theory. In addition, we cover the internal components of the computer and how the logic circuits inside them work.

How will I be assessed?

Two exams both 2 ½ hours long and both worth 40% of the marks. One is an on screen exam and the other is a written exam.

Non examined assessment. An extended project task which will take nine months. You will create and document a program for a client. This is worth 20% of the marks.

Where might it lead?

A large percentage of A Level Computer Science students go on to to study Computer Science at University. The ability to write code is extremely helpful for engineers, scientists and mathematicians. This A level is rigorous and well respected by universities.

There are excellent job and apprenticeship opportunities for those who have studied Computer Science A level as many of the skills you will learn are highly sought after.