



Course Choice Information – Computing Science – Advanced Higher

Course Information & Content

Computing Science underpins all the modern technology and systems we use in our everyday lives, including critical systems such as the internet and mobile devices.

This course develops skills developed at National 5 and Higher still further. Pupils studying this course will have a high degree of skills in developing modern software and online systems.

Software Design and Development

Pupils build on previous skills of Software Development and start to focus on Modern Object-Oriented methodologies. Although Python is used for teaching, familiarity with other languages will be developed.

Computer Systems

Pupils further their understanding of data representation and processor design. Awareness of cyber security issues is also developed.

Web Design and Development

Pupils will learn to develop fully interactive websites and combine this knowledge with their database work to produce sites that can access and manipulate data on a web server.

Database Design and Development

Pupils further their understanding of databases and explore how to integrate data sources with software and websites.

Assessment

- Course Assignment: a practical task done in class (50%)
- SQA Exam: sat during the main exam diet in May (50%)

Homework

Homework will be an integral part of the course with a high level of personal study and preparation expected. Access to a computer would be beneficial; software used in the course is freely downloadable.

Progression

University study towards a degree in Computing Science, Software Engineering, Informatics, Games Development or Cyber Security| A number of graduate apprenticeships are also available in Scotland.

Career Options

Almost any modern career benefits from Computing Science skills and understanding computer technology. Specific areas might include:

App or Software Development |Web Development |Online Media |Security & Cybercrime-related jobs Network Engineer |Hardware Creation and Development |Games Development |Multimedia Specialisms Technology training and support |Artificial Intelligence |Bioengineering & Medical research |Teaching |Digital Electronics or Communications

[Further Information - SQA](#)

