



Course Choice Information – Computing Science – Nat 5

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 is aimed at people who want to understand these areas better and potentially pursue a career in Computing, media or IT. Students will study four areas:

Software Design and Development

Pupils learn how to design software then create it in modern programming environments such as Python
3. Pupils learn how to read, debug and develop algorithms for solving common problems.

Computer Systems

Pupils develop skills and knowledge in computer hardware, software and data representation.

Web Design and Development

Pupils develop practical skills and theoretical understanding of web development including HTML, CSS, JavaScript and SQL.

Database Design and Development

Pupils study the design of structured databases that lie behind modern web applications, social media platforms and Information Systems.

Assessment

- Course Assignment: a practical task done in class (31%)
- SQA Exam: sat during the main exam diet in May (69%)

Homework

Homework will be set on regular basis and can include completion of classwork, practice of technical terms, revision and consolidation questions and answers. Access to a computer would be beneficial; software used in the course is freely downloadable.

Progression

Higher Computing Science |NPA Digital Media |NPA Games Development Level 6 |HNC/D Courses at College including Computing, Cyber Security and Software Development

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

[More Information - SQA](#)

