



**FOUNDATION
APPRENTICESHIP
IN INFORMATION
TECHNOLOGY:
SOFTWARE
DEVELOPMENT**

FOUNDATION APPRENTICESHIP IN INFORMATION TECHNOLOGY: SOFTWARE DEVELOPMENT

SCQF Level 6

CAREER PATHWAYS

- Software Developer/Programmer
- Computer Games Developer
- Web Developer
- Mobile Applications Developer
- Digital Design and Development
- Interactive Media Developer

COURSE DESCRIPTION

This FA covers a wide range of computer planning and programming skills, essential in today's IT industry.

You will learn how to establish customer and system requirements and develop the skills and knowledge required to write computer software that enables users to perform different tasks on a variety of computer systems and devices. These could include games, business systems, mobile apps and websites.

The course covers contemporary industry programming practises and technologies and you will build prototype systems for a range of technology solutions using event driven, procedural or object orientated techniques.

Virtually every profession, industry, and government department requires creative and talented individuals with a strong set of problem solving and programming skills.

Emerging technologies such as artificial intelligence, mobile computing, autonomous vehicles and the internet of things are driving an explosion in demand for creative talent.

COURSE CONTENT

For your National Progression Award, your topics will be:

- Computing applications: development
- Computing: authoring and website
- Software design and development

During both years your course will include hands-on, practical tasks as part of your work placement and in college laboratories.

Topics will include:

- Personal effectiveness
- Health and safety in IT and telecom
- Investigating and defining customer requirements for IT and telecoms systems
- Data modelling

And one of the following:

- Event driven computer programming
- Procedural programming
- Object oriented computer programming

SKILLS DEVELOPED

You will develop a wide range of skills and knowledge in the area of software design, development and programming. Approaches to software design, to ensure the correct solution meets the client brief, will be included as well as how to test and debug programmes. Wider problem solving, analytical, and communication skills will also be developed to help you achieve an exciting future career in the software development industry.

ENTRY REQUIREMENTS

- Achieved National 5 qualifications, including National 5 in Computing Science
- In S5 on starting the course
- You must be capable of working at SCQF Level 6 (Higher)
- An excellent attendance record in school
- School Transition Form

TARGET YEAR GROUP

S5

ADDED VALUE FOR FUTURE PROGRESSION

Fife College will accept achievement of the FA in Information Technology: Software Development as equivalent to two Highers which will support you to secure entry to the HNC: Computing at SCQF Level 7, or HND: Computing: Software Development, HND: Web Development (incorporating Mobile Applications Development), HND: Digital Design and Development (Games), or HND: Computer Games Development at SCQF Level 8.

Insight Tariff Points: 393
SCQF Credit Points: 59