

# Software Development with Cyber Security (in conjunction with the Stirling Uni) (2nd year entry)

Forth Valley College

## Venues

Falkirk Campus

## Content

This course is a unique and exciting opportunity which will kick start a career in one of Scotland's most thriving industries.

This degree has been developed with input from employers across the Scottish ICT community and will deliver the skills required to take advantage of the 11,000 job opportunities available each year.

Students will develop skills in key ICT areas with a focus on software development and analytical skills. There will be an emphasis on employability skills and industrial awareness to ensure graduates are 'work-ready' on completion of their course. Specialist units in Cyber Security (Ethical Hacking and Digital Forensics) are included.

The degree is taught jointly by Forth Valley College and the University of Stirling. Classes for the first two years will be delivered at Forth Valley College's campus in Falkirk.

Students who are placed in University accommodation at Stirling should be aware that they will be required to travel from Stirling to Falkirk for the first two years of their studies and should budget for travel costs accordingly.

### Year 1 modules:

Computer Systems Fundamentals; Developing Software: Introduction; Troubleshooting Computing Problems; Professionalism and Ethics in Computing; Mathematics: Calculus and Matrices for Computing; Software Development: Programming Foundations; Team Working in Computing  
User Centred Design ; Introduction to Project Management; Testing Software; HNC Computing: Graded Unit 1 (Exam); Software Development: Developing Small Scale Standalone Applications; Digital Forensics; Ethical Hacking

### Year 2 modules:

Object Oriented Programming; Object Orientated Analysis and Design; Developing Mobile Web Based Applications: An Introduction; Software Development: Developing Websites for Multiplatform Use; Graded Unit 2; Website Essentials; Data Structures; Relational Database Management Systems; SQL: Introduction.

### Year 3 modules:

Professional Development for Computer Scientists; Scripting for Data Science; Software Engineering II; Information Systems; Computer Games Development; UX Design; Operating Systems; Concurrency & Distribution; Code Analysis & Performance; Industrial Work Placement (compulsory).

### Year 4 modules:

Honours project (compulsory); Computer Science & Networks; Artificial Intelligence; NoSQL Databases; Web Services; Mobile App Development.

### Start Date

August

### Qualification

Degree

### Study Method

Full time

### Award Title

BSc Hons

### UCAS Code

T5G6

### Course Length

4 years

### Department

Computing

### Entry Requirements

Relevant HNC. Interview.

### SCQF Level

10

### SCQF Points

«SCQFPoints»

### Progression Routes

Employment or further study.

### Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

### Address

Grangemouth Road  
Falkirk  
FK2 9AD

## Website

[www.forthvalley.ac.uk](http://www.forthvalley.ac.uk)