

## Mathematics with Finance

Heriot-Watt University

### Venues

Edinburgh Campus

### Content

Fundamental ideas in pure and applied mathematics are developed together with key concepts in computer science. In addition to expertise in both subjects, the course fosters the intellectual skills of analytical reasoning, systematic problem solving and the development and clear communication of ideas. Students studying Mathematics with Computer Science study roughly 75% mathematics and 25% computer science.

In year 1 the mathematics content is identical to that of the BSc in Mathematics. Two courses in software development in computer science introduce key ideas in programming. In year 2 work in mathematics extends in both applied and pure mathematics. In computer science, software design and programming languages are core courses. The topics in year 3 develop mathematical skills and knowledge, and introduce ideas used at the forefront of modern mathematics. The computer science material includes theory of computing and programming language semantics. In year 4 further exploration and specialisation in advanced mathematics is possible with options related to the university's research expertise, together with computer science options in rigorous methods for software engineering and artificial intelligence and intelligent agents. Students will complete a mathematical project.

### Start Date

September

### Qualification

Degree

### Study Method

Full time

### Award Title

BSc Hons

### UCAS Code

G1N3

### Course Length

3 - 4 years

## Faculty

Science, Technology, Engineering and Mathematics (STEM)

## Department

Mathematics

## Entry Requirements

2027 entry requirements

5 Highers at ABBBB (Standard entry) or BBBC (Widening access entry) including Maths plus English at National 5.

For entry to year 2 you would require 3 Advanced Highers at ABB including Maths plus above.

## SCQF Level

10

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

Edinburgh  
EH14 4AS

## Website

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