

## Statistical Data Science

Heriot-Watt University

### Venues

Edinburgh Campus

### Content

First Year: Descriptive Statistics; Introduction to University Mathematics; Calculus; Statistical Science, Professional Development Planning and options from a wide choice, including economics and finance subjects.

Second Year: Statistics; Probability; Multivariable Calculus; Linear Algebra; Real Analysis; Actuarial and Financial Mathematics and options including numerical analysis and financial reporting.

Third Year: Statistical Inference; Linear and Generalised Linear Models; Stochastic Processes; Analysis of Data; Bayesian Statistics; Survival Models; Statistical Methods for Social Sciences and options from a wide choice, including actuarial and mathematics subjects.

Fourth Year: Time Series; Simulation and Statistical Computing; Further Statistical Methods; Special Topics in Statistical Modelling (e.g. in Epidemiology, Ecology or Finance); Foundations of Machine Learning; dissertation and options from a wide choice, including actuarial, financial and mathematics subjects.

### Start Date

September

### Qualification

Degree

### Study Method

Full time

### Award Title

BSc Hons

### UCAS Code

G301

### Course Length

4 years

### Faculty

School of Mathematical and Computer Sciences

## Department

Actuarial Mathematics and Statistics

## Entry Requirements

2025 entry requirements

Standard entry: 4 Highers at AAAB including Maths at A plus English at National 5.

Widening access entry: 4 Highers at ABBC including Maths at A plus English at National 5.

For entry to Level 2 you would require 3 Advanced Highers at AAB including Maths at A plus Highers at AAAB.

## SCQF Level

10

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

Edinburgh  
EH14 4AS

## Website

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