Mathematics and Artificial Intelligence

University of Stirling

Venues

Stirling Campus

Content

Build valuable maths and AI skills. Learn Python, statistics, machine learning and data science. Gain industry experience on a placement and graduate ready for in-demand AI careers.

Get the theory, the quantitative skills, and the practical technological skills you need to solve real-world problems using AI. This maths and AI degree is for students who enjoy mathematics and want to understand how artificial intelligence works at a fundamental level. You'll learn core skills in the following.

Linear algebra: Essential for understanding data representation, neural networks, and dimensionality reduction.

Probability and statistics: Crucial for machine learning models, Bayesian methods, and data analysis.

Calculus and optimisation: The basis for training algorithms, such as gradient descent, and understanding how models learn.

Programming: Essential for implementing and testing artificial intelligence algorithms. You'll develop expertise in Python and R.

AI for computer vision and natural language processing.

Generative AI.

Data Science: Essential for training and developing AI algorithms.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

BSc Hons

UCAS Code

G120

Course Length

4 years

Faculty

Natural Sciences

Department

Computing Science and Mathematics

Entry Requirements

2027 entry requirements:
4 Highers at ABBB including Maths.

For entry to the three year Honours degree, you will require 3 Advanced Highers at ABB including Maths.

SCQF Level

9

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

Stirling
FK9 4LA

Website

www.stir.ac.uk