

# Robotics, Autonomous and Interactive Systems

Heriot-Watt University

## Venues

Edinburgh Campus

## Content

### Year 1

Provides the basic mathematics, electronics, programming, and mechanical engineering skills that form the core knowledge for later work.

### Year 2

Builds on the core skills with more advanced electronic engineering, software and mechanical engineering topics. Concepts of robotics and autonomy are introduced through courses on robot kinematics and autonomous vehicle control. This work is supported by practical activities.

### Year 3

Includes more advanced specialisms, including signal processing, artificial intelligence, graphics and system design. There is a large team design project that builds on and integrates the taught material.

### Year 4

Options allow the student to focus on particular areas of interest. Topics include: robotics and automation, embedded systems, signal and image processing, virtual worlds and interaction, and biologically inspired computing. A project covering the full year allows the student to investigate and solve a significant science or engineering problem.

### Year 5

A six-month industry placement covers the summer and semester 1 of Level 5. In semester 2, advanced courses can be chosen from the three departments – Electronic Engineering, Computer Science, and Mechanical Engineering.

## Start Date

September

## Qualification

Degree

## Study Method

Full time

## Award Title

MEng

## UCAS Code

H671

## Course Length

5 years

## Faculty

School of Engineering and Physical Sciences

## Department

Electrical, Electronic and Computer Engineering

## Entry Requirements

2024 entry requirements

Standard entry: 4 Highers at AABB including Maths and Engineering Science or Physics at AB or BA plus English at National 5.

Widening access entry: 4 Highers at BBBC including Maths and Engineering Science or Physics at B plus English at National 5.

For entry to Level 2 you would require Advanced Higher Maths and Physics at BB plus 4 Highers at AABB.

## SCQF Level

11

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

Edinburgh  
EH14 4AS

## Website

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