Physics

Heriot-Watt University

Venues

Edinburgh Campus

Content

Year 1
Provides foundations of physics and mathematics and gives the opportunity to look at wider aspects of physics through experimental study in investigative techniques. Also covered are fundamental engineering skills in electronics and mechanics.

Year 2
Important themes of physics are introduced through courses in Thermal Physics, Photonics and Optics and Electronics. Experimental, Programming, and Communication skills are developed through practical laboratory activities.

Year 3
Deals with more advanced treatments of core physics, such as: Electromagnetism; Dynamics and Relativity; and Solid State Physics. Experimental and programming skills are further developed using more in-depth experimental studies.

Year 4
Deals with more advanced treatments of core physics, such as: Advanced Electromagnetism; Laser Physics; Quantum Concepts; and Solid State Physics. Students can choose from specialist topics including Optical Sensing and Optoelectronics.

Year 5
A major part of the final year is the Research Project; this usually takes place in our state-of-the-art research laboratories alongside our research staff. Taught courses include Condensed Matter, Nanophotonics and Material Physics.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MPhys

UCAS Code

F302

Course Length

5 years

Faculty

School of Engineering and Physical Sciences

Department

Physics

Entry Requirements

2025 entry requirements

Standard entry: 4 Highers at AABB including Maths and Physics plus English at National 5.

Widening access entry: 4 Highers at BBBC including Maths and Physics at BB 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