

## Physics with a Year Abroad

University of Edinburgh

### Venues

King's Buildings Campus

### Content

#### Year 1

You will study compulsory courses in physics and mathematics. Physics 1A is innovative in its use of technology and offers an interactive learning experience. Physics 1B introduces you to the fundamentals of quantum physics.

You will study Mathematics for Physics 1 and 2 which include mathematical and problem solving skills in the context of algebra and calculus, with increasing emphasis on physical applications.

You will be able to choose two further subjects from other academic areas.

#### Year 2

You will study modern physics and physics of fields and matter. Supporting mathematics courses will cover algebra, calculus, dynamics and vector calculus and you will be introduced to practical physics, including programming, data analysis and experimental techniques.

Students entering the programme in Year 2 will take additional introductory courses in classical physics and mathematics.

You will have the freedom to choose one or two courses from other academic areas.

#### Year 3

You will study thermodynamics, statistical mechanics, electromagnetism, optics and quantum mechanics.

We offer a supporting mathematics course covering Fourier analysis, probability and statistics, a computing course on numerical algorithms, an introductory course to research methods, and a course on experimental laboratory.

#### Year 4

You will undertake a year abroad in a partner institution and complete an extended research project.

#### Year 5

You will study relativity, nuclear and particle physics. Condensed matter physics, and quantum and statistical physics will also be included. Students undertake a research project and will be able to choose a number of advanced level courses from a wide range available.

### Start Date

September

## Qualification

Degree

## Study Method

Full time

## Award Title

MPhys

## UCAS Code

W2S4

## Course Length

5 years

## Faculty

College of Science and Engineering

## Department

Physics and Astronomy

## Entry Requirements

2024 entry requirements

Standard entry:

4 Highers at AAAA (by end of S5 preferred) including Maths at A and Physics plus English at National 5. Advanced Higher Maths is recommended.

Direct entry to year 2 is possible with 3 Advanced Highers at AAA including Maths and Physics.

Widening access entry:

4 Highers at AABB (by end of S6) including Maths at A and Physics plus English at National 5. Advanced Higher Maths is recommended. Highers at BBB must be achieved in one sitting S4-S6.

## SCQF Level

11

## Progression Routes

«ProgressionRoutes»

## Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

## Address

Old College  
South Bridge  
Edinburgh  
City of Edinburgh  
EH8 9YL

## Website

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