

Mathematical Physics

University of Edinburgh

Venues

King's Buildings Campus

Content

Year 1

You will study four compulsory courses: Physics 1A, Introduction to Linear Algebra, Calculus and its Applications and Mathematics for Physics 2. You will also have the opportunity to take a further course in pure mathematics or physics.

Year 2

You will study modern physics, dynamics, fields and waves, and physics of matter. Mathematics courses will cover several variable calculus and the foundations of pure mathematics. You will be introduced to practical physics, including programming, data analysis and (optionally) experimental techniques. You will also have the freedom to choose a further specialist maths course or a course from other academic areas.

Year 3

You will study core courses in quantum mechanics, thermodynamics and statistical mechanics, electromagnetism and relativity, and lagrangian dynamics. You will also undertake further specialist mathematics and physics courses from a range available.

Year 4

In this year there are a number of compulsory courses covering quantum theory, symmetries of quantum mechanics, classical electrodynamics, Hamiltonian dynamics and statistical physics. Students also take a number of other courses from a range available.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

BSc Hons

UCAS Code

F326

Course Length

4 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

10

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse»

«htmlCombinationUCASCode»

Address

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Website

www.ed.ac.uk