Physics

University of Glasgow

Venues

Gilmorehill Campus

Content

Year 1: In first year you will gain a basic understanding of the core topics in theoretical physics, receive an introduction to the methods of experimental physics and obtain a solid foundation for further study of the subject. Courses you will typically study are dynamics, wave motion, properties of matter, thermal physics, optics, electricity and magnetism, and quantum physics.

You will also study two other subjects in year 1 according to your interests: see Degrees in Arts, Science and Social Sciences.

Year 2: In second year you will extend and deepen your broad physics education, undergo further training in more specialised experimental techniques and expand your awareness of the latest developments in modern physics research.

Courses you will typically study are physics of waves, dynamics, physics of solids, thermal physics, electricity and magnetism, nuclear and particle physics, physics of optics, and mathematical techniques.

You will also study one or two other subjects in year 2 according to your interests: see Degrees in Arts, Science and Social Sciences.

Years 3, 4 and 5: If you progress to Honours (years three and four) you will continue to study in greater depth core topics spanning all areas of physics, from sub-atomic particles to optics and electromagnetism, explore a range of specialist topics of your choice: including highlights of the very latest cutting-edge research; and undertake project work, often within a world-leading research group.

The main components of the Honours programme include quantum mechanics: the study of the behaviour of the microscopic universe: electricity and magnetism: the behaviour of stationary and moving charges and their interactions with electric and magnetic fields; optics and photonics: the study of lasers and non-linear optics; relativity: how the universe appears to observers moving close to the speed of light; nuclear and particle physics: the elementary particles of nature and their interactions; solid state physics: the physics of a wide range of solid materials, including semiconductors.

An important emphasis of the Physics degree programmes is on technological applications such as laser physics, semiconductor physics and devices, modern signal processing technology and magnetic and superconducting materials.

Start Date

September

Qualification

Degree

Study Method

Full time

Award Title

MSci

UCAS Code

F301

Course Length

5 years

Faculty

College of Science and Engineering

Department

School of Physics and Astronomy

Entry Requirements

2027 entry requirements
Standard entry: 5 Highers at AAAAA (by end S6 with min BBBB after S5) including Maths and Physics at AA (AB or BA may be considered).

Entry to year 2 may be possible with 3 Advanced Highers at AAA including Maths and Physics plus Highers at BBBB.

Widening access entry: 4 Highers at AABB/BBBB (by end S6) including Maths and Physics. Completion of pre-entry programme is necessary.

SCQF Level

11

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

Address

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Website

www.gla.ac.uk