Physics

University of Strathclyde

Content

From the very start of our BSc (Hons) Physics degree, you'll focus on developing an understanding of the fascinating world of classical and modern physics. As you explore the key concepts in physics, the tailored mathematics modules will equip you with the essential tools to support and strengthen your problem-solving skills.

Year 1
Department of Physics staff will deliver the foundations of physics, mathematics and problem solving to establish a strong base for future learning.

You start with essential mechanics, waves and fundamental electromagnetism and quantum physics all supported by a bespoke mathematics course. You'll be introduced to the programming language Python and practical work in the teaching laboratory will give you the basic skills you need to complete and report on your first mini project.

You'll also develop personal and professional skills through a through a mini team project and begin to interact with the careers service.

Year 2
The bespoke mathematics course, delivered by physicists, continues to help you tackle problems and apply concepts across mechanics, waves, electromagnetism and quantum physics.

You'll start developing computational physics models in Python and the practical course will extend your ability to use a variety of equipment and enhance your experimental skills.

Modules and team assignments will further develop your communication, negotiation and leadership skills.

Year 3
Extending the concepts from Years 1 and 2, you'll start to relate the physics of mechanics, waves, electromagnetism and quantum physics to the intricacies of the quantum realm, thermodynamics and solid-state physics.

You'll apply your problem-solving skills to more sophisticated theoretical, computational and experimental challenges and get to choose optional modules to extend your knowledge in these areas.

Year 4
You'll apply your knowledge and skills to undertake an your own independent open-ended project, embedded in one of our research groups, supervised by a member of staff. The project is carried out over both semesters in Year 4.

Depending on your interests, you can select optional modules from topics as diverse as nanoscience, photonics

and plasma physics through to enhanced quantum physics.

Start Date

October

Qualification

Degree

Study Method

Full time

Award Title

BSc Hons

UCAS Code

F300

Course Length

4 years

Faculty

Faculty of Science

Department

Physics

Entry Requirements

2027 entry requirements

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

Widening access entry:
4 Highers at BBBB including Maths and Physics plus English at National 5. Higher English preferred.

A Foundation Apprenticeship is accepted in place of a non-essential Higher.

SCQF Level

10

Progression Routes

«ProgressionRoutes»

Combination Courses

«htmlCombinationCourse» «htmlCombinationUCASCode»

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Website

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