

Year in industry.

If you do a Year in Industry course, you spend a year between level two and level three on a work placement. You can apply your physics knowledge in a scientific organisation, or apply the transferable skills from your degree to a role outside science.

You'll pay reduced fees for the year you're on placement, and earn a salary throughout.

Organisations where physics students have done their placements include:

- CERN, Switzerland
- Daresbury Laboratory, Science and Technology Facilities Council
- IBM
- Sellafield Ltd

Study abroad.

If you do the Study Abroad course, instead of completing our standard level three, you will spend your third year studying physics at a top university in the USA, Canada, Australia or New Zealand.

Universities that Sheffield physics students have gone to include:

- McMaster University, Ontario, Canada
- Monash University, Melbourne, Australia
- University of Auckland, New Zealand
- University of Illinois at Urbana-Champaign, USA
- University of Texas at Austin, USA

Physics with Philosophy.

On the Physics with Philosophy degree, you'll have similar core and optional physics modules as other physics students, plus lots of philosophy topics to choose from. Options range from religion, ethics and politics, to feminism, the arts and death.

Visit our website to see the exact details of your core and optional modules.

Be Sheffield Made.

The information given here is based on the current academic year. There may be some changes before you start your course. For the latest information, visit our website.

www.sheffield.ac.uk/physics
www.youtube.com/sciencesheffield



Your Physics course.

UCAS codes:
F300 / F301 / F305 / F309 / F310 / F311 / F3V5 / FV35



In the first two years of your course, you'll cover the essential physics behind everything else you'll study. Lectures and lab classes are included in the same modules, so you'll run experiments to help you understand important theories even more clearly.

There are optional modules from the start of your degree and the choice only expands from there. We offer a range of project modules in level three, and MPhys students spend half of their final year working in one of our leading research groups.

Level one.

Core modules:

- Mathematics for Physicists and Astronomers
- Fields and Quanta
- Motion and Heat

Optional modules:

- Introduction to Astrophysics
- The Solar System
- Our Evolving Universe
- Frontiers in Physics
- The Physics of Sustainable Energy
- Physics of Living Systems 2
- Introduction to Electric and Electronic Circuits

Level two.

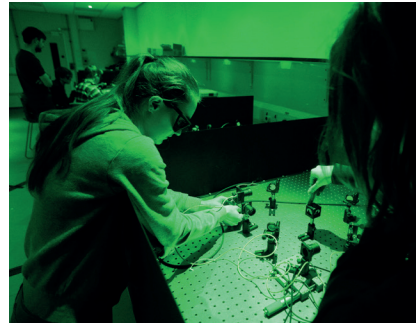
Core modules:

- Classical and Quantum Physics
- Programming in Python
- Special Relativity and Subatomic Physics

Optional modules:

- Aspects of Medical Imaging and Technology
- Astronomical Spectroscopy
- Detection of Fundamental Particles (except Study Abroad)
- Galaxies
- Physics of Materials

- Stellar Structure and Evolution
- The Physics of Music
- Physics with Labview



Level three.

Core modules:

- Atomic and Laser Physics
- Particle Physics
- Problem Solving and Advanced Skills in Physics
- Semiconductor Physics and Technology
- Solid State Physics
- Statistical Physics (optional on BSc)

Optional modules:

- Advanced Programming in Python
- Astrobiology
- Dark Matter and the Universe
- Industrial Group Project in Physics
- Introduction to Cosmology
- Introduction to Soft Condensed Matter and Biological Physics'
- Mathematical Physics
- Microscopy and Spectroscopy Laboratory
- Nuclear Physics
- Origin of the Chemical Elements'
- Physical Computing
- Physics Education and Outreach
- Quantum Information Laboratory
- Research Project in Physics
- Physics in an Enterprise Culture

Level four (MPhys only).

Core modules:

- Research Project

Optional modules:

- Advanced Electrodynamics
- Advanced Particle Physics
- Advanced Quantum Mechanics
- Advanced Soft Condensed Matter and Biological Physics
- An Introduction to General Relativity
- Dark Matter and the Universe
- Galaxy Formation and Evolution
- Introduction to Cosmology

- Optical Properties of Solids
- Physics in an Enterprise Culture
- Quantum Optics and Quantum Computing
- Star Formation and Evolution
- The Development of Particle Physics
- The Physics of Soft Condensed Matter