



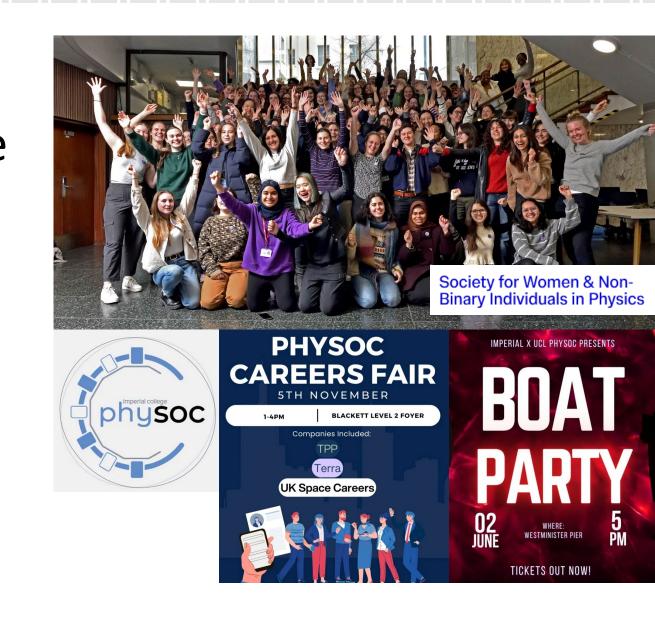
Physics for Humanity

Our mission is to learn and teach about the universe and how light and matter behave through space and time, using our knowledge to solve problems and advance technology



We are one of the largest Physics departments in the world

- 800 Undergraduate students
- 124 Academic staff
- 500 Masters students
- 285 PhD students
- 245 Professional and research staff
- PhySoc is the largest student society at Imperial



We conduct research in and teach on a broad range of topics

Light	Matter	Particles	Universe	Space, Plasma and Climate
Optics Photonics Laser Science Quantum Optics Medical Imaging	Renewable Energy Nanotechnology Quantum Computing Soft Electronics	Particle Searches New Forces Accelerator & Detector Design Nuclear Medicine	Astrophysics Dark Matter Cosmology String theory Quantum theory	Planetary and Solar Physics Space Plasmas Fusion Energy Climate Change

Notable People of Imperial Physics

Nobel Prize Winners:

George Thomson

1937, electron as wave

Patrick Blackett

1948, cloud chamber

Dennis Gabor

1971, holography

Abdus Salam

1979, electroweak unification

Peter Higgs

2013, Higgs boson

Maggie
AderinPockock
Scientist and presenter



Nicola Fox NASA head of science



Terry
Rudolph
Co-Founder,
PsiQuantum



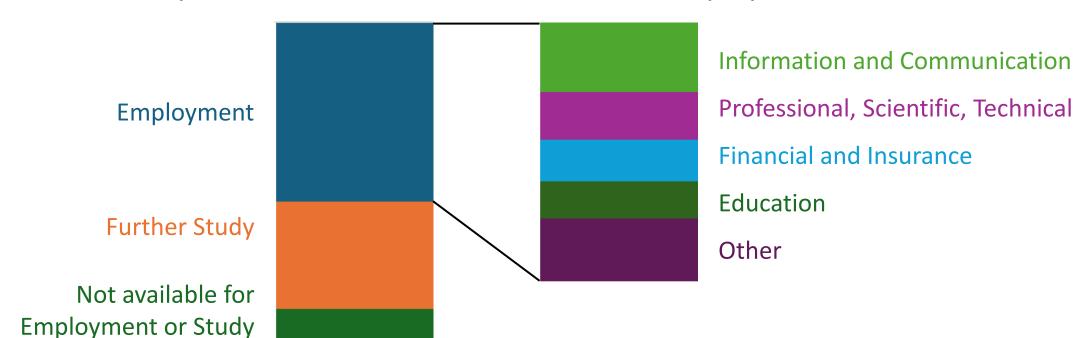
Michele
Dougherty
Astronomer
Royal



Our graduates have bright futures

Destinations of Physics Graduates

Sector of Employment



No. 1 in UK for graduate prospects The Guardian University Guide

Seeking Employment



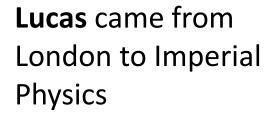
University of the Year for graduate employment

The Times Good University Guide

THE

TIMES





He's now doing his PhD on the Higgs Boson at CERN



Shreyas came from London to Imperial Physics

He's now an analyst at JP Morgan Private Bank



Ying Yan came from Malaysia to Imperial Physics

She's now a trainee in medical physics with the NHS

Our courses

3 year courses

BSc Physics

BSc Physics with Theoretical Physics

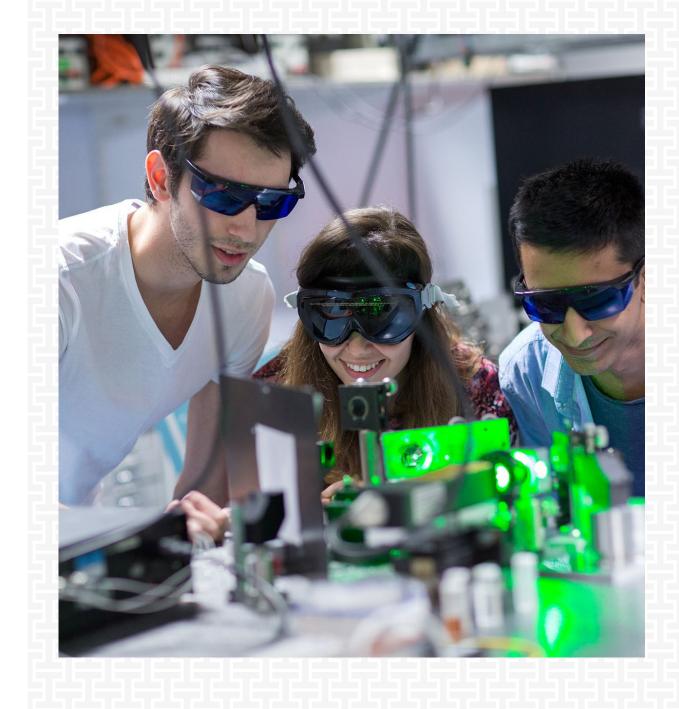
4 year courses

MSci Physics

MSci Physics with Theoretical Physics

MSci Physics with a Year Abroad

You can switch between courses up to Year 3



MSci Physics with Year Abroad

Undertake year 3 at a partner university

France University of Paris-Saclay or Institut Polytechnique de Grenoble

Germany Universität Heidelberg

Italy Università degli Studi di Padova

Netherlands University of Utrecht

Spain Universidad Autonoma de Madrid, Universitat de Valencia or Universidad de La Laguna

Switzerland École Polytechnique Fédérale de Lausanne

USA Massachusetts Institute of Technology

Partner universities are subject to change







Our Curriculum

	BSc Physics	MSci Physics	BSc Theory	MSci Theory	MSci Year Abroad	
Year 1	Core Physics: Vector Fields, Electricity and Magnetism; Mechanics and Relativity; Oscillations and Waves; Statistics & Summer Project; Laboratory & Computing					
		Maths Analysis or A	Advanced Electronics		Language	
	Core Physics: Thermal Physics and Structure of Matter; Differential Equations and Electromagnetism; Quantum Physics; Laboratory & Computing					
Year 2	I-Explore				Language	
	2 electives		Mat	Maths Methods		
			1	1 elective		
Year 3	Core Physics: Nuclear and Particle Physics; Solid State Physics; Comprehensives				Year Abroad:	
	Laboratory		Advanced	Advanced Classical Physics		
	4-5 electives	4-5 electives	Project	Project	Electives	
			3-4 electives	3-4 electives		
Year 4		Professional Skills		Professional Skills	year 3 Core	
		Project		Project	4-5 electives	
		4-5 electives		4-5 electives		

We have a wide range of electives

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Mathematical Analysis

Advanced Electronics

Year 2

Environmental Physics

Sun, Stars and Planets

Mathematical Methods (T)

Communicating Physics

I-Explore

Year 3

Advanced Classical Physics (T)

Astrophysics (T)

Computational Physics (T)

Data Science and Machine

Learning

Foundations of Quantum

Mechanics (T)

Group Theory (T)

Lasers

Medical Imaging and

Radiotherapy

Plasma Physics

Principles of Instrumentation

Statistical Mechanics (T)

Year 4

Advanced Particle Physics (T)

Atmospheric Physics

Concepts in Device Physics

Cosmology

General Relativity (T)

Hydrodynamics

Information Theory

Laser Technology

Nanotechnology

Optical Communications Physics

Quantum Field Theory (T)

Quantum Information (T)

Quantum Optics

Quantum Theory of Matter (T)

Space Physics

Unification - the Standard Model (T)



Electives offered are subject to change

I-Explore: broaden your knowledge and tackle a new subject area

Dozens of modules to choose from, for example:

Science:

Al and Robotics Climate Change

Humanities & Social Sciences:

Creative Writing Psychology

Business School:

Economics Entrepreneurship

Languages

Multidisciplinary project



A typical week as a 1st year Physics student has lectures, interactive teaching and optional activities

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-10			Functions	Lab Data Analysis	Seminar
10-11	Lab	Computing Lab	Mechanics		
11-12	-		Week Ahead		Professional Skills
12-1			Research Frontiers		Year Abroad
1-2					Language Classes
2-3	Academic Tutorial	Complex Analysis	Reserved for sports and clubs		Computing
3-4		Functions		Personal Tutorial	Mechanics
4-5		Horizons		Vectors & Matrices	
5-6	Complex Analysis			Mechanics	

Academic tutorials



Weekly tutorials with 5 students and a staff member on course material through years 1-3

Seminars



Weekly tutorials with staff members and teaching assistants for 60 students working in teams of 5 through years 1-2

We have an entire floor dedicated to teaching labs and a large computing lab





https://www.youtube.com/watch?v=oDnrCtjqRmA&t=78s

Our teaching is based on the world-class research we do



Original student research starts with the Year 1 Project



Fay Dowker

Professor of Theoretical Physics

Researching causal set theory to unify physics

Currently
teaches
Quantum
Mechanics in
Year 2 and
supervises MSci
projects

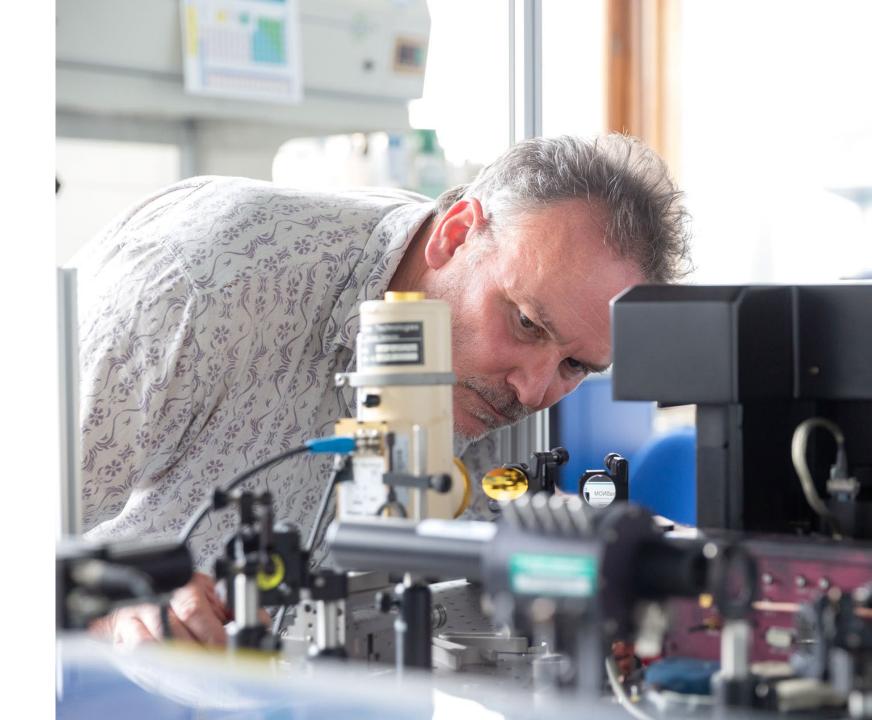
Chris Phillips

Professor of Experimental Solid State Physics

Researching Quantum
Optical Effects in
Nanostructures

Leading spinout company for novel medical imaging for detecting cancer

Teaches tutorials and supervises MSci projects





Earth Observation Science to Understand a Changing Planet





Helen Brindley

Professor of Climate Physics

Developing instrumentation to measure Earth's radiation from ground, aircraft and satellite

Currently teaches
Atmospheric Physics
as Year 3/4 elective
and supervises MSci
projects

Steve Kolthammer

Associate Professor of Physics

Researching Quantum Computing and Information

Currently serves as Head of Year 2, teaches Atomic Physics in Year 2, and supervises MSci projects



Student welfare and wellbeing

Personal Tutor meets students through all 3 or 4 years about their studies, interests, and careers

Professional support team to help with special circumstances, disabilities or any issue students need help with

Student-to-student support from Physics Helpdesk and big brothers and big sisters

Imperial provides health centre, counselling, sports facilities, chaplaincy, careers service, and more





Apply with UCAS for undergraduate courses in Physics at Imperial



Deadline 14 January 2026

3 Year courses

BSc Physics or BSc Physics with Theoretical Physics

4 Year courses

MSci Physics or MSc Physics with Theoretical Physics

MSci Physics with Year Abroad

to USA or Netherlands:

- → Apply directly to any Physics course
- → Switch in year 2

to France, Germany, Italy, Spain, or Switzerland:

- → Apply directly to MSci Physics with Year Abroad
- → GCSE grade 6 in the relevant language required

Selection process

We take into consideration your:

- → Grades: past and predicted
- → School reference
- → Personal statement
- → ESAT admissions test

There are no interviews for undergraduate physics courses



Minimum entry requirements

A-level

A*A*A in three full A Levels
(excluding General Studies, Critical
Thinking), to include:
A* in Mathematics
A* in Physics
Further Maths is recommended but
not a requirement

International Baccalaureate, international qualifications accepted

English Language:

GCSE at grade 6, IELTS at 7.0 overall (6.5 in each element), or other equivalent

Engineering and Science Admissions Test (ESAT)

The ESAT is a multiple-choice computer-based assessment which tests mathematical and science thinking, along with reasoning skills.

It is made up of multiple 40-minute assessments which run back-to-back on the test day.

Book the test online and sit it. at a local Pearson VUE test centre.

For 2026 entry, the test sittings are:



9 and 10 October 2025 (book by 29 Sept)

6 and 7 January 2026 (book by 19 Dec)

Only your first score will be accepted so you should only Maths 2 Maths 1 sit the test once for 2026 entry

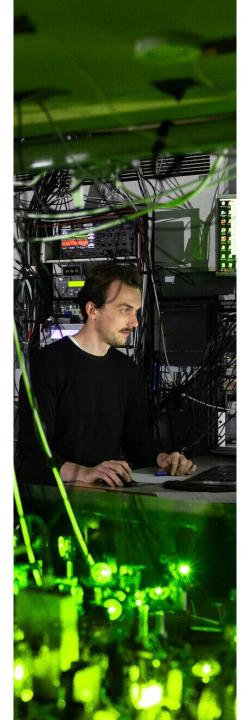
For Physics at Imperial, you need to sit:

Physics

We welcome applicants from disadvantaged or underrepresented backgrounds

Guaranteed offers to Home applicants who satisfy the Widening Participation criteria (see Study Guide), have predicted grades that meet the minimum College entry standard, demonstrate motivation to study Physics, and score above minimum threshold in ESAT.

Reconsideration: If you get exceptional results, your application might be reconsidered, even if you don't get an Imperial offer.



Imperial Bursary

One of the most generous bursaries of its kind in the UK

Who is it for?

All UK undergraduate students who meet the income criteria and who are eligible for UK government funding.

How to qualify?

You qualify automatically if your annual household income is **under £70,000**.

How much?

Up to £5,000 per year towards living costs.

Do you have to pay it back?

imperial.ac.uk/imperial-bursary

Search our scholarships:

imperial.ac.uk/study/fees-and-funding/scholarships-search



PHYSOC

PHYSICS SOCIETY

IMPERIAL COLLEGE LONDON

WHO ARE WE?

- STUDENT-RUN
- DEPARTMENTAL SOCIETY FOR ALL PHYSICS STUDENTS (UG AND PG)



WHAT WE DO:

- PHYSOC FAMILY
- FLAGSHIP EVENTS:
 - QUIRK Physics Conference with other universities
 - RESEARCHATHON HACKATHON FOR RESEARCH
 - UG COLLOQUIA
 - ANNUAL CHRISTMAS DINNER
 - BOAT PARTY
- SOCIALS:
 - HYDE PARK GAMES FOOTBALL, FRISBEE,
 - MOVIE NIGHTS (WITH SNACKS)
 - COLLAB WITH OTHER SOCIETIES
 - ASTRONOMY
 - DEBATE
- CAREERS FAIRS
- PHD AND MASTERS STUDENTS PANELES FOR UG















Website Linkedin Instagram

THANKS FOR LISTENING!

FOLLOW OUR SOCIALS

Thank you for visiting Imperial Physics!



imperial.ac.uk/physics/students/undergraduate-admissions/

UCAS website:

www.ucas.com

Undergraduate Study Guide: imperial.ac.uk/study/ug

Questions? Email ph.admissions@imperial.ac.uk

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