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Physics and Philosophy Course Information Sheet for entry in 2025

This course combines the most rigorous and fundamental subjects in the sciences and the arts.

Physics is concerned with unravelling the complexities of the universe from the smallest to the largest scale. Philosophy deals with foundational questions of the most general kind: what there is, what we know and how we came to know it, and how we ought to act and structure our lives.

Central to both subjects is the development and application of clear and precise thinking to foundational problems, the questioning of received wisdom and the critical articulation of ideas which aim for an understanding of how things are, in the broadest possible terms.

Physics and Philosophy are historically intertwined and each continues to contribute to developments in the other.

Philosophy played a crucial role in the two revolutions of 20th-century physics – namely, relativity and quantum mechanics. It continues to contribute both to foundational research in theoretical physics and to the articulation and critique of scientific method. Conversely, discoveries in physics provide profound implications for philosophical inquiry, such as the nature of space and time and the behaviour of matter at the quantum realm.

Students on this course can expect to investigate not only central developments in both subjects, but also this interplay.

Oxford has one of the largest physics departments in the UK, with over 100 academics leading research that spans the breadth of physics. This expertise ensures the curriculum is updated in the light of developments in research.

The Philosophy Faculty is the largest in the UK, with more than 70 full-time members; it admits around 450 undergraduates annually to read the various degrees involving Philosophy.

The Oxford research group in Philosophy of Physics is the largest in the world. It has interests ranging from classical space-time theories and foundations of classical statistical mechanics, to quantum mechanics, quantum field theory and quantum gravity.

Philosophy of Physics runs through the first three years of the course.

In the first year students delve into 18th-century investigations into matter and motion.

In Years 2 and 3 they investigate the philosophical foundations of relativity and quantum mechanics.

The fourth-year MPhysPhil options bring you to the threshold of current research. In this year students may specialise in either Physics or Philosophy, or continue with a combination, including advanced study in the Philosophy of Physics. Alternatively, students may complete the course in three years, leaving with a BA.

A typical week

Your work will be divided between independent study, tutorials, two or three classes and about ten lectures each week. Independent study (reading for and writing essays, completing problem sets) will take up the majority of your working time.

Tutorials typically take the form of 2-4 students discussing themes arising from essays or problem sets with a tutor in the students' college. Lectures and classes are typically held in either the Department of Physics or Faculty of Philosophy.

Class sizes may vary depending on the options you choose. There would usually be no more than around 10 students though classes for some of the more popular papers may be up to 20 students.

Most tutorials, classes, and lectures are delivered by staff who are tutors in their subject. Many are world-leading experts with years of experience in teaching and research. Some teaching may also be delivered by postgraduate students who are usually studying at doctoral level.

To find out more about how our teaching year is structured, visit our [Academic Year](#) page.

Course structure

YEAR 1	
INDICATIVE COURSES Physics <ul style="list-style-type: none">• Classical mechanics and special relativity• Mathematical methods• Differential equations and waves Philosophy <ul style="list-style-type: none">• General philosophy• Introductory philosophy of physics• Philosophical topics in logic and probability	ASSESSMENT First University examinations: three written papers in Physics; two written papers in Philosophy.

YEAR 2	
INDICATIVE COURSES Physics <ul style="list-style-type: none">• Thermal physics• Electromagnetism• Quantum physics• Mathematical methods• Physics practicals	ASSESSMENT Final University examinations, Part A: three papers in Physics; satisfactory lab work.

YEAR 2

Philosophy

- Early modern philosophy or Knowledge and reality
- Philosophy of special relativity

YEAR 3

INDICATIVE COURSES

Core topics:

Physics - choose two of the following:

- Symmetry and relativity
- General relativity
- Classical mechanics

Philosophy - compulsory topics:

- Philosophy of science
- Philosophy of quantum mechanics

Extra subjects, choose:

- Either two Physics papers and/or projects from:
 - The remaining core subject not chosen
 - Atomic and laser physics
 - Computational and experimental projects
 - Condensed matter physics
 - Fluids
 - Nuclear and particle physics
- Or one Philosophy paper from a range of options

ASSESSMENT

Final University examinations, Part B: three or four written papers in Philosophy; two or four subjects in Physics.

YEAR 4

RESEARCH

Three units chosen in any combination from the lists for Physics and Philosophy, including an advanced philosophy of physics option.

ASSESSMENT

Final University examinations, Part C: a mix of three written papers and essays, or thesis (in

YEAR 4

	Philosophy), or project (in Physics).
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The options listed above are illustrative and may change. More information about current options is available on the [Physics website](#) and [Philosophy website](#).

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. For further information, please see the University's [Terms and Conditions](#).

Fees

These annual fees are for full-time students who begin this undergraduate course here in 2025.

Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Please note that while the University sets out its annual fees as a single figure, this is a combined figure for both your University and college fees. More information is provided in your [Terms and Conditions](#).

Fee status	Annual Course fees
Home (UK, Republic of Ireland, Channel Islands & Isle of Man)	£9,535
Overseas (including most EU students – see Note below)	£44,880

Note: Irish nationals living in the UK or Ireland, EU, other EEA, and Swiss nationals who have been granted settled or pre-settled status in the UK under the EU settlement scheme are eligible for 'Home fee' status and student loan support, subject to meeting residency requirements. We will contact you directly if we need further information from you to determine your fee status.

Please refer to the [Undergraduate fee status](#) pages for more information.

Living costs

Living costs for the academic year starting in 2025 are estimated to be between £1,425 and £2,035 for each month you are in Oxford. Our academic year is made up of three eight-week terms, so you would not usually need to be in Oxford for much more than six months of the year but may wish to budget over a nine-month period to ensure you also have sufficient funds during the holidays to meet essential costs. For further details please visit our [living costs webpage](#).

Living costs breakdown

	Per month		Total for 9 months	
	Lower range	Upper range	Lower range	Upper range

UNDERGRADUATE ADMISSIONS AND OUTREACH

University Offices, Wellington Square, Oxford OX1 2JD



	Per month		Total for 9 months	
Food	£330	£515	£2,970	£4,635
Accommodation (including utilities)	£790	£955	£7,110	£8,595
Personal items	£200	£335	£1,800	£3,015
Social activities	£45	£100	£405	£900
Study costs	£40	£90	£360	£810
Other	£20	£40	£180	£360
Total	£1,425	£2,035	£12,825	£18,315

In order to provide these likely living costs (which are rounded to the nearest £5), the University and the Oxford SU conducted a living costs survey to complement existing student expenditure data from a variety of sources, including the UK government's Student Income and Expenditure Survey and the National Union of Students (NUS).

The current economic climate and high national rate of inflation make it very hard to estimate potential changes to the cost of living over the next few years. When planning your finances for any future years of study in Oxford beyond 2025-26, it is suggested that you allow for potential increases in living expenses of around 4% each year – although this rate may vary depending on the national economic situation.

[Additional Fees and Charges Information for Physics and Philosophy](#)

There are no compulsory costs for this course beyond the fees shown above and your living costs.