

## Course Information Sheet for entry in 2023-24: DPhil in Mathematics



### About the course

The DPhil in Mathematics is an advanced research degree which provides the opportunity to investigate a project in depth and write a thesis which makes a significant contribution in the field. You will gain a wide range of research and other skills as well as in-depth knowledge and expertise in your chosen field, whilst studying in a beautiful, modern setting.

During your study at Oxford, you can share in the excitement of contributing to research in one or more of the many topics studied by Oxford mathematicians. The department's research covers the entire spectrum of mathematics, with subject areas including:

- algebra (primarily group theory and representation theory)
- number theory
- algebraic geometry
- differential geometry
- topology
- complex manifolds
- global analysis
- partial differential equations
- functional analysis
- stochastic analysis
- dynamical systems
- mathematical logic
- optimisation
- combinatorial theory
- quantum theory
- string theory
- relativity
- mathematical biology and ecology
- mathematical modelling
- fluid and continuum mechanics
- mathematical and computational finance
- numerical analysis
- history of mathematics
- mathematics applied to problems in earth sciences, materials science and finance
- data science
- network science.

You will be asked to outline your research interests when you apply by listing one or more of the fields of research listed above on your application form under "proposed field and title of research project", and you will be matched to the most appropriate research group.

You will be expected to acquire transferable skills as part of your training, which will require you to attend courses, lectures, workshops and colloquia. You will be expected to complete a minimum of 68 hours of broadening training during your studies, comprising the equivalent of 3 standard 16-hour lecture courses and attendance at relevant seminars and colloquia. You will have the opportunity to develop other valuable skills and to contribute to the teaching work of the department, both by marking students' work and later by leading classes of around eight to twelve students.

Undertaking the course is regarded as equivalent to working full-time hours and may also sometimes require some additional hours. The minimum period of registration for the DPhil is six terms but in practice you may need nine terms at least.

### Supervision

You will be invited to suggest a specific supervisor or supervisors in your application, and your preferences will be taken into account in allocating you a supervisor (which will be done before your arrival). The allocation of graduate supervision for this course is the responsibility of the Mathematical Institute and it is not always possible to accommodate the preferences of incoming graduate students to work with a particular member of staff. Under exceptional circumstances a supervisor may be found outside the Mathematical Institute.

Students are expected to meet with their supervisors at least four times per term. A more typical pattern is weekly, at least until you reach the stage of writing up your thesis.

### Assessment

All students will be initially admitted to the status of Probationer Research Student (PRS). Within four terms of admission as a PRS student you will be expected to apply for transfer of status from Probationer Research Student to DPhil status.

A successful transfer of status from PRS to DPhil status will require satisfactory attendance and the submission of a thesis. Students who are successful at transfer will also be expected to apply for and gain confirmation of DPhil status within nine terms of admission, to verify that their work continues to be on track. Both milestones normally involve an interview with two assessors (other than your supervisor) and therefore provide important experience for the final oral examination.

You will be expected to teach at least one set of classes before transfer of status and a further two additional sets before confirmation of status. You will be expected to acquire transferable skills as part of your training and to undertake 68 hours of broadening courses outside your specialist area. This normally involves the submission of written work for three 16-hour lecture courses and attendance at workshops and colloquia.

You will be expected to submit a substantial original thesis which should not exceed 200 pages after three or, at most, four years from the date of admission. To be successfully awarded a Doctor of Philosophy in Mathematics you will need to defend your thesis orally (viva voce) in front of two appointed examiners.

### Changes to courses

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. These may include significant changes made necessary by a pandemic (including Covid-19), epidemic or local health emergency. For further information, please see the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>) and our page on changes to courses (<http://www.graduate.ox.ac.uk/coursechanges>).

### Expected length of course

	Full Time Only
Expected length	3 to 4 years

## Costs

### Annual fees for entry in 2023-24

Fee status	Annual Course fees
Home	£8,960
Overseas	£24,800

### Information about course fees

Course fees are payable each year, for the duration of your fee liability (your fee liability is the length of time for which you are required to pay course fees). For courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>).

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional cost information (below), course fees do not cover your accommodation, residential costs or other living costs. They also don't cover any additional costs and charges that are outlined in the additional cost information.

Graduate students who have reached the end of their standard period of fee liability may be required to pay a termly University and/or a college continuation charge.

The University continuation charge, per term for entry in 2023-24 is £572, please be aware that this will increase annually. For part-time students, the termly charge will be half of the termly rate payable by full-time students.

If a college continuation charge applies (not applicable for non-matriculated courses) it is likely to be in the region of £100 to £600 per term. Please contact your college for more details.

### Additional cost information

There are no compulsory elements of this course that entail additional costs beyond fees (or, after fee liability ends, continuation charges) and living costs. However, please note that, depending on your choice of research topic and the research required to complete it, you may incur additional expenses, such as travel expenses, research expenses, and field trips. You will need to meet these additional costs, although you may be able to apply for small grants from your department and/or college to help you cover some of these expenses.

## Living costs

In addition to your course fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

The likely living costs for 2023-24 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

### Likely living costs for one month

	Lower range	Upper range
<b>Food</b>	£300	£470
<b>Accommodation</b>	£715	£860
<b>Personal items</b>	£180	£305
<b>Social activities</b>	£40	£90
<b>Study costs</b>	£35	£80
<b>Other</b>	£20	£35
<b>Total</b>	£1,290	£1,840

### Likely living costs for nine months

	Lower range	Upper range
<b>Food</b>	£2,700	£4,230
<b>Accommodation</b>	£6,435	£7,740
<b>Personal items</b>	£1,620	£2,745
<b>Social activities</b>	£360	£810
<b>Study costs</b>	£315	£720
<b>Other</b>	£180	£315
<b>Total</b>	£11,610	£16,560

### Likely living costs for twelve months

	Lower range	Upper range
<b>Food</b>	£3,600	£5,640
<b>Accommodation</b>	£8,580	£10,320
<b>Personal items</b>	£2,160	£3,660
<b>Social activities</b>	£480	£1,080
<b>Study costs</b>	£420	£960
<b>Other</b>	£240	£420
<b>Total</b>	£15,480	£22,080

When planning your finances for any future years of study at Oxford beyond 2023-24, it is suggested that you allow for potential increases in living expenses of 5% or more each year – although this rate may vary significantly depending on how the national economic situation develops.

More information about how these figures have been calculated is available at [www.graduate.ox.ac.uk/livingcosts](http://www.graduate.ox.ac.uk/livingcosts).

## Document accessibility

If you require an accessible version of the document please contact Graduate Admissions and Recruitment by email ([graduate.admissions@admin.ox.ac.uk](mailto:graduate.admissions@admin.ox.ac.uk)) or via the online form (<http://www.graduate.ox.ac.uk/ask>).