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Mathematics and Statistics Course Information Sheet for entry in 2025

All over the world, human beings create an immense and ever-increasing volume of data, with new kinds of data regularly emerging from science and industry. A new understanding of the value of these data to society has emerged, and with it, a new and leading role for statistics.

In order to produce sensible theories and draw accurate conclusions from data, cutting-edge statistical methods are needed. These methods use advanced mathematical ideas combined with modern computational techniques, which require expert knowledge and experience to apply.

A degree in Mathematics and Statistics equips you with the requisite skills for developing and implementing these methods. The course provides a fascinating combination of deep and mathematically well-grounded method-building and wide-ranging applied work with data.

The Department of Statistics at Oxford is an exciting and dynamic place to study, with teaching and research strengths in a wide range of modern areas of statistical science. Many of its academic staff work in the development of fundamental statistical methodology and probability. There is a strong new research group working on statistical machine learning and scalable methods for Big Data.

The department has a world-leading team applying new statistical methods to huge genetic data sets in order to unlock the secrets of human genetic variation and disease. Other groups work on applied probability, network analysis, and medical, actuarial and financial applications. These interests are reflected in the lecture courses available to undergraduates in their third and fourth years.

A typical week

The typical week of a student in Mathematics and Statistics is similar to that for [Mathematics](#):

- Years 1 and 2: around ten lectures and 2–3 tutorials or classes a week
- Years 3 and 4: 8–12 lectures and 2–4 classes a week, depending on options taken. (Courses involving statistical software packages have some lecture hours replaced by teaching sessions in labs).

Tutorials are usually 2-4 students and a tutor. Class sizes may vary depending on the options you choose. There would usually be around 8-12 students though classes for some of the more popular papers may be larger.

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 doctorate level.

Visit our [Academic Year](#) page to find out more about how our teaching year is structured.

Course structure

The first year of this course is identical to [Mathematics](#), and the core mathematics part of the degree is completed in the first term of the second year.

You will also follow second-year Mathematics courses in probability and statistics, and the remainder of the second year allows for some choice of topics in preparation for the greater selectivity of the third and fourth years.

Admission to this course is joint with Mathematics, and applicants do not choose between the two degrees until the end of their fourth term at Oxford. At that point, all students declare whether they wish to study Mathematics or study Mathematics & Statistics. Further changes later on may be possible subject to the availability of space on the course and the consent of the college.

There are two Mathematics and Statistics degrees, the three-year BA and the four-year MMath. Decisions regarding continuation to the fourth year do not have to be made until the third year. All third- and fourth-year mathematical topics available in the Mathematics course are also available to Mathematics and Statistics students. The fourth year is naturally more challenging and provides an opportunity for more in-depth study, including a substantial Statistics project.

YEAR 1

COURSES

Compulsory Year 1 includes:

- Algebra
- Analysis
- Probability and statistics
- Geometry
- Dynamics
- Multivariable calculus

ASSESSMENT

First University examinations: five compulsory papers; Computational mathematics projects

YEAR 2

COURSES

Current core courses:

- Probability
- Statistics
- Algebra
- Differential equations
- Metric spaces
- Complex analysis

Current options:

- Simulation and statistical programming
- Selection from a menu of other options in Mathematics

ASSESSMENT

Final University examinations, Part A: five core papers and four or five optional papers

YEAR 3

COURSES

Current options include

- Applied and computational statistics
- Statistical inference
- Statistical machine learning
- Applied probability
- Statistical lifetime models
- Wide range of other options in Mathematics

ASSESSMENT

Final University examinations, Part B: the equivalent of eight written papers including assessed practicals

YEAR 4

COURSES

Statistics dissertation

Current options include:

- Stochastic models in mathematical genetics
- Probability and statistics for network analysis
- Advanced topics in statistical machine learning
- Advanced simulation methods
- Graphical models
- Topics in computational biology
- Algorithmic foundations of learning
- Probability on graphs and lattices
- Wide range of other options in Mathematics

The options listed above are illustrative and may change. A [full list of current options](#) is available on the Mathematics and Statistics websites.

ASSESSMENT

Final University examinations, Part C: the equivalent of eight written papers.

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.

UNDERGRADUATE ADMISSIONS AND OUTREACH

University Offices, Wellington Square, Oxford OX1 2JD



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
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 Mathematics and Statistics](#)

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

If you're buying a computer for university, please do consider a laptop over a desktop, so that you can take the laptop to classes. If you don't have your own, the department has several spare laptops that you are welcome to use.