



Course Information Sheet for entry in 2019-20

MSc in Statistical Science

About the course

The MSc in Statistical Science is a twelve-month full-time taught master's degree running from October to September each academic year. The MSc has a particular focus on modern computationally-intensive theory and methods.

The MSc in Statistical Science will aim to train you to solve real-world statistical problems. When completing the course you should be able to choose an appropriate statistical method to solve a given problem of data analysis, implement the analysis on a computer and communicate your results clearly and succinctly.

The MSc offers a broad high-level training in applied and computational statistics, statistical machine learning, and the fundamental principles of statistical inference. Training is delivered through mathematically demanding lectures and problems classes, hands-on practical sessions in the computer laboratory, report writing and dissertation supervision. You will have around three months to work on your dissertation with guidance from your supervisor.

You will be assessed on your performance in two written examinations around May, through your work in the assessed practical problems set during the year, and by the quality and depth of your dissertation.

The Department of Statistics has made some changes to the content and delivery of the course and the revised MSc programme ran for the first time in 2016-17. There is now more emphasis on computational statistics and statistical machine learning, more opportunity for students to take courses from the MMath Mathematics and Statistics degree, and enhanced class support. The assessment structure remains the same as in previous years. The course is now known as the MSc in Statistical Science (previously the MSc in Applied Statistics) to better reflect its content.

Students take four, or exceptionally five, courses each term. Three courses each term are core courses and students must complete the practical sessions in these courses.

Course modules

The options available will vary from year to year. The core courses available each year may also vary. In 2018-19, the core courses are:

- Applied Statistics
- Foundations of Statistical Inference
- Statistical Programming
- Computational Statistics
- Statistical Machine Learning
- Bayes Methods.

In 2018-19, the options are:

- Stochastic Models in Mathematical Genetics
- Probability and Statistics for Network Analysis
- Graphical Models
- Algorithmic Foundations of Learning
- Topics in Computational Biology
- Advanced Topics in Statistical Machine Learning
- Advanced Simulation Methods
- Actuarial Science.

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. For further information, please see the University's Terms and Conditions.

Expected length of course

12 months

Costs

Annual fees for entry in 2019-20

Fee status	Annual Course fees
Home/EU (including Islands)	£11,160
Overseas	£25,387

The fees shown above are the annual course fees for this course, for entry in the stated academic year.

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional information section 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 below.

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. For details, please see our guidance on likely increases to fees and charges.

Additional cost information

There are no compulsory elements of this course that entail additional costs beyond fees and living costs. However, as part of your course requirements, you may need to choose a dissertation, a project or a thesis topic. Please note that, depending on your choice of 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 2019-20 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 1 month		Likely living costs for 9 months		Likely living costs for 12 months	
	Lower range	Upper range	Lower range	Upper range	Lower range	Upper range
Food	£265	£371	£2,387	£3,342	£3,183	£4,456
Accommodation	£566	£739	£5,093	£6,655	£6,790	£8,874
Personal items	£122	£271	£1,098	£2,435	£1,464	£3,246
Social activities	£42	£126	£380	£1,138	£506	£1,518
Study costs	£40	£88	£359	£788	£478	£1,051
Other	£23	£48	£208	£432	£277	£576
Total	£1,058	£1,643	£9,525	£14,790	£12,698	£19,721

When planning your finances for any future years of study at Oxford beyond 2019-20, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.